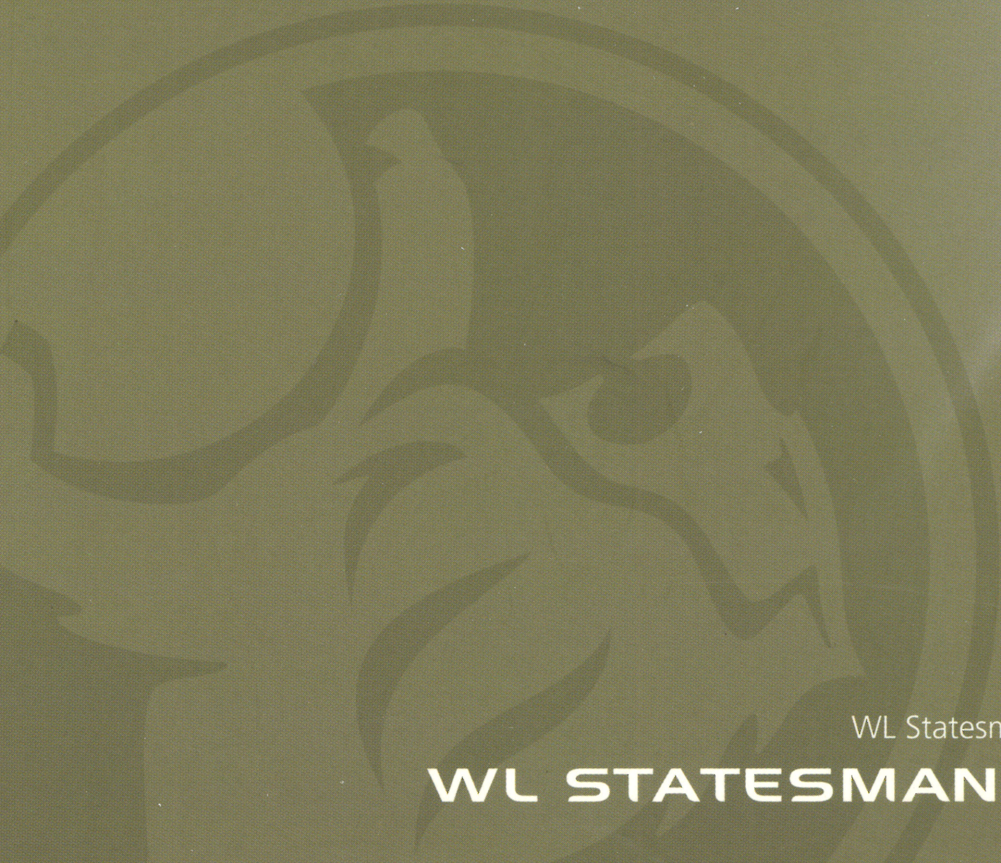


WL Statesman and Caprice Owner's Handbook

WL STATESMAN AND CAPRICE

Holden Ltd, ABN 84 006 893 232 (hereinafter Holden)

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle. Also, if less than three years old, this vehicle will qualify for Roadside Assistance, refer to Chapter 9.

If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the form on the third page of this handbook. For information about Holden's privacy policy, please visit Holden's website at www.holden.com.au.

Note: Please refer to the inside front cover of the service booklet for the Vehicle Identification Certificate.

Printed in Australia
Part No. 92209607
June 2004 (WL Statesman and Caprice Print 1)

© 2004 Holden Ltd
Reproduction in whole or part is prohibited
without written approval from Holden Ltd,
ABN 84 006 893 232.

CONTENTS

Instruments, switches, trip computer, climate control, ventilation system, clock, exterior lights, radio, cruise control, parking aids, wipers and washers. *Dashboard* **1**

Keys, ignition lock, door locks, child safety door lock, alarm, anti-theft, deadlock, boot lock, bonnet lock. *Locks* **2**

Seats, seat belts, child restraints, mirrors, power windows, park brake, interior lighting, glovebox, storage compartments, power sockets, cup holders, sunroof, fuel filler release. *Know your vehicle* **3**

Engine starting, running-in, use of automatic transmission, anti-lock braking, electronic stability program, traction control, tyre pressure monitoring system, driving precautions and notes about add on equipment. *Driving* **4**

Fuel and exhaust warnings, petrol filling, fuel tank capacity, emission control, reducing fuel consumption details. *Fuel* **5**

Accidents, first aid, flat tyre, airbags, towing the vehicle, hazard warning flashers, engine overheating, flat battery, fuses, bulb replacement. *Emergencies* **6**

Checking: oil, coolant, automatic transmission fluid, power steering fluid, brake fluid, washer fluid, battery, tyre pressure, trolley jack locations. *Weekly checks* **7**

Engine and general specifications, capacities, dimensions, identification labels and plates. *Specifications* **8**

Warranty, Holden Roadside Assistance, Customer Assistance. *Customer Assistance* **9**

Loading information, towing, towing equipment, towing precautions, attaching a trailer, kerb weights. *Tow and load* **10**

Interior cleaning, washing, list of cleaning materials. *Cleaning* **11**

Index

We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.

This handbook applies to the current WL model. Therefore, due to different models and options, you may find reference in this Handbook to some equipment not fitted to your own vehicle.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

Reference is made throughout this Handbook to different engines:

- V6 engine (labelled 'V6 ALLOYTEC' on the engine).
- V8 engine (labelled '5.7 ALLOY V8' on the engine).

If unsure of which engine is fitted to your vehicle, please lift the bonnet and check the identification on the top of the engine.

CHANGE OF ADDRESS OR OWNERSHIP

Please fill in the form below if you have changed your name, address, bought the vehicle second-hand, or have become the new driver.

Holden requires these details in order to contact the operator in the event of a safety recall and to keep the initial 3 year Roadside Assistance details up to date (refer to Chapter 9). For information about Holden's privacy policy, please visit Holden's website at *www.holden.com.au*.

Please mail to the address on the back of this page.

If Holden Assist is fitted, please also press the Assist button on the rear view mirror to advise of change of address / ownership.

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Title: (Mr, Mrs, Miss, Ms, etc.)

First name in full or initials

Surname or Name of Company / Institution / Government Department

Address

Street / box

City / Town

State

Postcode

1st contact phone no

2nd contact phone no

Email address

Vehicle registration number

ISOVIN Number (refer to Chapter 8)

Place in an envelope and mail to:

The Manager – Warranty Administration
Service Department
Holden Ltd
Box 548D, G.P.O.
Melbourne
Victoria, 3001

CHANGE OF ADDRESS OR OWNERSHIP

Please fill in the form below if you have changed your name, address, bought the vehicle second-hand, or have become the new driver.

Holden requires these details in order to contact the operator in the event of a safety recall and to keep the initial 3 year Roadside Assistance details up to date (refer to Chapter 9). For information about Holden's privacy policy, please visit Holden's website at *www.holden.com.au*.

Please mail to the address on the back of this page.

If Holden Assist is fitted, please also press the Assist button on the rear view mirror to advise of change of address / ownership.

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Title: (Mr, Mrs, Miss, Ms, etc.)

First name in full or initials

Surname or Name of Company / Institution / Government Department

Address

Street / box

City / Town

State

Postcode

1st contact phone no

2nd contact phone no

Email address

Vehicle registration number

ISOVIN Number (refer to Chapter 8)

Place in an envelope and mail to:

The Manager – Warranty Administration
Service Department
Holden Ltd
Box 548D, G.P.O.
Melbourne
Victoria, 3001

CHANGE OF ADDRESS OR OWNERSHIP

Please fill in the form below if you have changed your name, address, bought the vehicle second-hand, or have become the new driver.

Holden requires these details in order to contact the operator in the event of a safety recall and to keep the initial 3 year Roadside Assistance details up to date (refer to Chapter 9). For information about Holden's privacy policy, please visit Holden's website at *www.holden.com.au*.

Please mail to the address on the back of this page.

If Holden Assist is fitted, please also press the Assist button on the rear view mirror to advise of change of address / ownership.

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Title: (Mr, Mrs, Miss, Ms, etc.)

First name in full or initials

Surname or Name of Company / Institution / Government Department

Address

Street / box

City / Town

State

Postcode

1st contact phone no

2nd contact phone no

Email address

Vehicle registration number

ISOVIN Number (refer to Chapter 8)

Place in an envelope and mail to:

The Manager – Warranty Administration
Service Department
Holden Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

CHAPTER 1

Dashboard

Page

1-2 Layout
1-4 Gauges
1-5 Warning / reminder indications
1-18 Turn signals, horn, tilt / reach steering
1-19 Trip computer
1-26 Options menu
1-34 Wipers and washers
1-35 Lights
1-38 Clock, radio, CD and DVD
1-41 Remote radio / CD controls
1-42 Caprice audio roof buttons and headphones
1-43 Antenna
1-44 Mobile phone connection
1-45 Ventilation system
1-46 Climate control
1-51 Climate control notes
1-53 Cruise control
1-55 Parking aids
1-59 Navigation system

LAYOUT

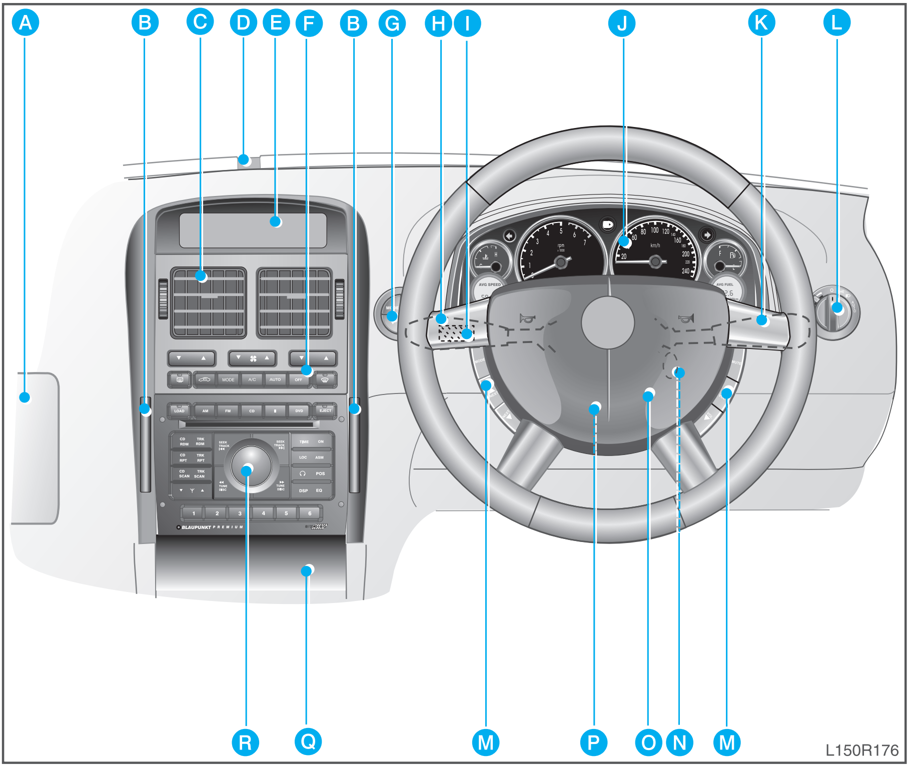
Page

☐ Glovebox 3-20
☐ Cup holders 3-24
☐ Vents 1-45
☐ Sunlight sensor 1-35
☐ Information display for:
- Climate control 1-46
- Radio / CD 1-38

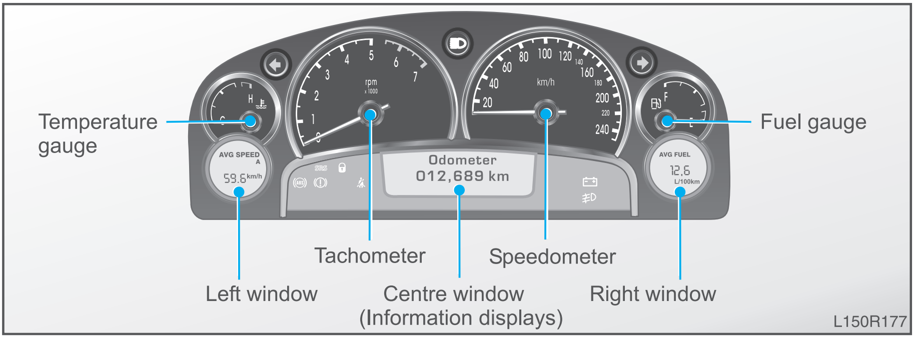
☐ Switches for climate control 1-46
☐ Trip computer switches 1-19
☐ Lever for wipers and washers 1-34
☐ In-car temperature sensor 1-52
☐ Gauges 1-4
☐ Lever for:
- turn signal 1-18
- high / low beam 1-37
- cruise control 1-53

☐ Headlights dial switch
- with front fog lights and dimmer control 1-35

☐ Remote radio / CD controls 1-41
☐ Ignition switch / lock 2-9
☐ Horn pad 1-18
☐ Tilt steering 1-18
☐ Storage compartment 3-21
☐ Radio / CD 1-38


A
B
C
D
E
F
B
G
H
I
J
K
L
R
Q
M
P
O
N
M
L150R176

GAUGES


Temperature gauge
Fuel gauge
AVG SPEED
59.6 km/h
Odometer
012,689 km
AVG FUEL
12.6
L/100km
rpm
x 1000
km/h
Tachometer
Speedometer
Left window
Centre window
(Information displays)
Right window
L150R177

Speedometer

The speedometer shows vehicle speed in kilometres per hour (km/h).

Tachometer

The tachometer shows engine speed in thousands of revolutions per minute (rpm).

Fuel gauge

The fuel gauge shows the level of fuel in the fuel tank when the ignition is switched on; E = empty, F = full.

Note: Small additions of fuel (less than 15 litres) can take up to 10 minutes to register on the fuel gauge; larger amounts show almost immediately. This is so fuel movement, when cornering, will not register on the gauge. Refer to Chapter 5, Fuel.

Temperature gauge

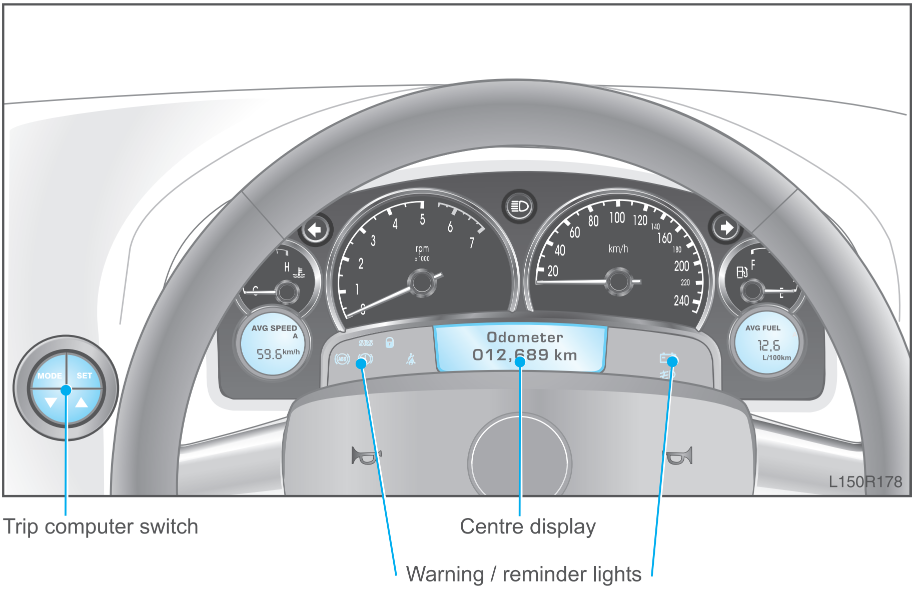
The temperature gauge indicates the engine coolant temperature when the ignition is switched on. Stop-start driving in heavy traffic, driving at high speed in warm weather, hill climbing or towing may cause the needle to move toward the 'H'. This is normal, and is not cause for concern. However, if the needle moves all the way to 'H' and remains there for more than 30 seconds, stop the vehicle as soon as it is safe to do so. Refer to ‘Engine Overheating’ in Chapter 6.

Information displays

The instrument panel information displays consist of a centre display and two side displays. They provide visual information to the driver for a number of vehicle functions, such as: trip computer, radio, warnings and reminders. The various functions and their associated displays are explained further on in this chapter and in the following chapters.

Note: Adjust the illumination of the gauges by moving the tab on the side of the headlights dial. Refer to ‘Lights’ further on in this chapter.

WARNING / REMINDER INDICATIONS



Trip computer switch

Centre display

Warning / reminder lights

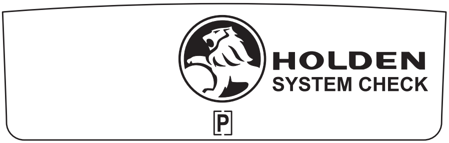
Warning / reminder indications are provided on the instrument panel as illuminated icons, animated symbols or a combination of both. The illuminated icons appear along the bottom of the instrument panel, below the temperature and fuel gauges. The animated symbols appear on the instrument panel centre display.

Most warning / reminder indications are accompanied by a chime.

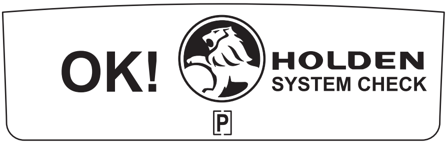
Control of the instrument panel display is provided through the trip computer switch. The switch is located to the right of the instrument panel. The trip computer switch has four buttons: MODE, SET, ▼ and ▲.

Display – Ignition on

System Check: When the ignition is turned on, a vehicle system check is performed and the status is shown on the display. If there are no warnings or service reminders, the display shows a series of welcome screens displaying the Holden logo and finishing with the 'HOLDEN SYSTEM CHECK OK!' screen.



L150R074

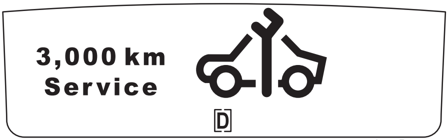


L150R075

Note:

- Invoke the Options menu by pressing the MODE button while turning the ignition on. The system check continues to run in the background.
- Pressing the MODE button any time during the system check causes the display to jump ahead to the last trip computer screen displayed before the ignition key was last switched off. The system check continues to run in the background.

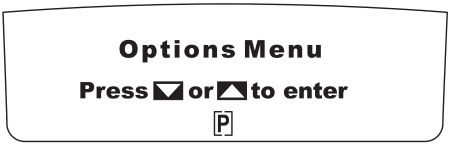
WARNING / REMINDER INDICATIONS cont.


3,000 km
Service
D

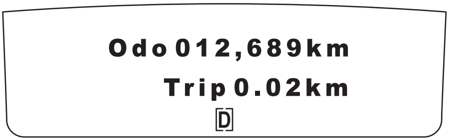
L150R099

If a service reminder is active, it displays for 10 seconds or until the MODE button is pressed. Refer to Chapter 11, Servicing for details on service displays. Once the service reminder screen has timed-out or the MODE button has been pressed, the display advances to the system check and welcome screens.

If the system check detects a problem, it displays the appropriate warning immediately. If a warning is displayed, press the MODE button to acknowledge it (once for each warning). The display jumps ahead to the last trip computer screen displayed before the ignition key was last switched off.


Options Menu
Press ▼ or ▲ to enter
P

L150R117


Odo 012,689km
Trip 0.02km
D

L150R078

Options menu: After the 'System Check' is completed, the Options menu displays for 3 seconds if the vehicle speed is under 10 km/h and no active warnings exist. Refer to 'Options Menu' further on in this chapter.

Trip Display: If the MODE button is pressed or the screen times-out (3 seconds), the Options menu disappears and the trip computer displays the same functions as when the ignition was last turned off.

Note: To display the Odometer screen, if not already displayed, tap the MODE button until the screen displays.

Display – Ignition off

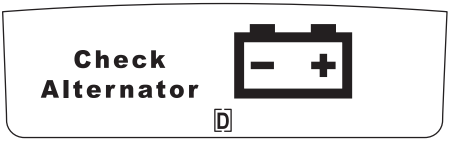
When the ignition is turned off, the Odometer displays on the screen unless a service reminder is active. Active service reminders display for 10 seconds before the Odometer displays.

WARNINGS AND REMINDERS

The following warning and reminder indications may appear on your instrument panel centre display (depending on the luxury level of your vehicle).

Alternator

To check that the alternator warning light is working, the 🔋 icon is illuminated for a short time when the ignition is turned on.


Check
Alternator
D

L150R026

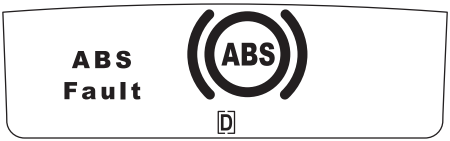
If the 🔋 warning light and 'Check Alternator' animation illuminate while driving, it indicates that the alternator is not charging properly. Contact your Holden Dealer.

The 'Check Alternator' animation displays until the MODE button on the trip computer switch is pressed, whereas the 🔋 warning light remains illuminated until the problem is rectified.

WARNING / REMINDER INDICATIONS cont.

ABS fault / off

To check that the Anti-lock Brake System (ABS) warning light is working, the (ABS) icon displays for a short time when the ignition is turned on.



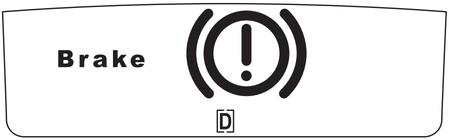
L150R025

If the (ABS) warning light and 'ABS Fault' animation illuminate when driving, a malfunction of the ABS is indicated. Contact your Holden Dealer. The vehicle's brake system will still operate conventionally with the anti-lock operation disabled. Refer to Chapter 4.

The 'ABS Fault' animation displays until the MODE button on the trip computer switch is pressed, whereas the (ABS) warning light remains illuminated until the problem is rectified.

Brake fail and park brake warning

To check that the brake fail / park brake warning light is working, the (!) icon displays when the ignition is first turned on and the park brake is applied.



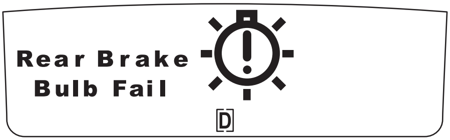
L150R033

If the (!) warning light and 'Brake' animation illuminate while driving and the park brake is released, a fault with the brakes is indicated. Stop the vehicle immediately on the side of the road as carefully as possible. Do not proceed until satisfied that braking is possible or that the cause of the problem has been fixed.

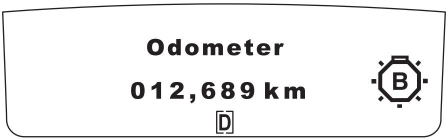
A warning chime sounds if you attempt to drive off without releasing the park brake fully.

The 'Brake' animation displays until the MODE button on the trip computer switch is pressed, whereas the (!) warning light remains illuminated until the problem is rectified.

Rear brake bulb failure



L150R090



L150R091

If the 'Rear Brake Bulb Fail' animation illuminates while driving, a fault in the rear brake lamps or high mounted brake lamp is indicated.

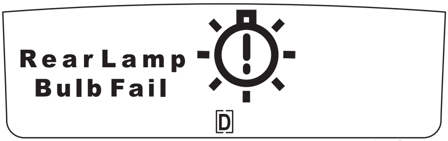
The 'Rear Brake Bulb Fail' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small bulb failure icon on the right. The icon remains illuminated until the problem is rectified.

WARNING / REMINDER INDICATIONS cont.

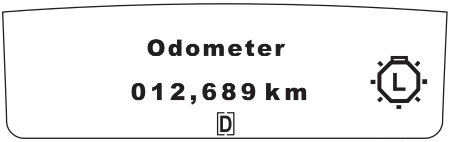
Rear lamp bulb failure

If the 'Rear Lamp Bulb Fail' animation illuminates while driving, a fault in the rear park lamps or the licence plate lamps is indicated.

The 'Rear Lamp Bulb Fail' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small lamp failure icon on the right. The icon remains illuminated until the problem is rectified.



L150R094

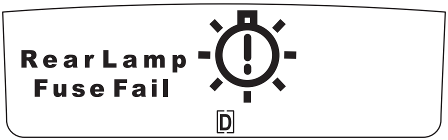


L150R095

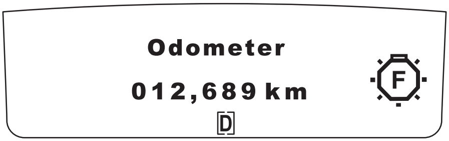
Rear lamp fuse failure

If the 'Rear Lamp Fuse Fail' animation illuminates while driving, a fault in the rear stop lamps fuse or park lamps fuse is indicated.

The 'Rear Lamp Fuse Fail' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small fuse failure icon on the right. The icon remains illuminated until the problem is rectified.



L150R092

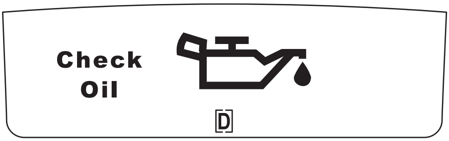


L150R093

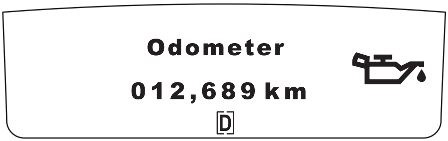
Low oil pressure

If the 'Check Oil' animation illuminates when driving, it indicates that the oil pressure is low or the oil level is low and engine damage may result if you continue driving. Stop immediately, turn off the engine and check the engine oil level. Refer to Chapter 7. Do not run the engine when this symbol is illuminated. If the oil level is normal, have the system checked at the nearest Holden Dealer.

The 'Check Oil' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small 🛢 icon on the right. The 🛢 icon remains illuminated until the problem is rectified.



L150R079

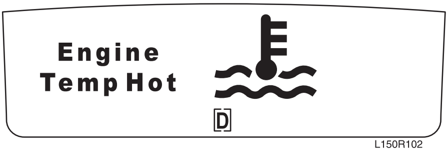


L150R080

WARNING / REMINDER INDICATIONS cont.

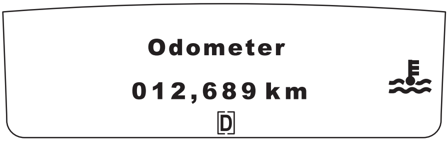
Over temperature

If the 'Engine Temp Hot' animation illuminates while driving, it indicates that the engine coolant temperature is excessively hot. It is advisable to stop the vehicle as soon as it is safe to do so.



L150R102

However, in th event of being in an isolated area, the vehicle can be driven at a speed of up to 80 km/h for a period of one hour. Refer to chapter 6, Engine overheating, for further details on this function.



L150R103

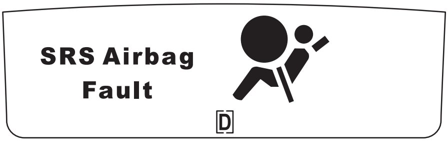
The 'Engine Temp Hot' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small over temperature 🌡 icon on the right. The 🌡 icon remains illuminated until the problem is rectified.

Refer to Chapter 6, Engine overheating.

Airbag and seat belt pretensioners

To check that the warning light is working, the **SRS** icon displays for a short time when the ignition is first turned on.

If the **SRS** warning light and 'SRS Airbag Fault' animation illuminates while driving, it indicates that the airbag system or seat belt pretensioner system may not function correctly, especially in an accident. Contact your Holden Dealer immediately.



L150R101

The **SRS** warning light illuminates after an accident where the pretensioners, or pretensioners and airbag(s), have activated.

The 'SRS Airbag Fault' animation displays until the MODE button on the trip computer switch is pressed, whereas the **SRS** warning light remains illuminated until the problem is rectified.

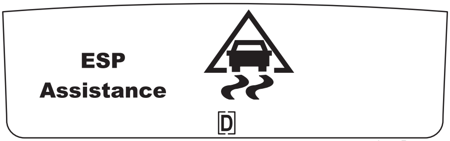
Refer to Chapter 6 for airbags or Chapter 3 for seat belt pretensioners.

WARNING / REMINDER INDICATIONS cont.

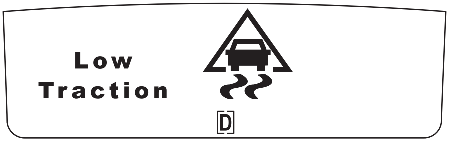
ESP assistance (if fitted)

If the 'ESP Assistance' animation illuminates while driving, it indicates that the Electronic Stability Program (ESP) has sensed that an ESP event is occuring and that the vehicle requires help with road grip and stability.

The 'ESP Assistance' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small ESP assistance ⚠ icon on the right. The ⚠ icon remains illuminated as long as the low traction situation exists. Refer to Chapter 4 for more information on the ESP system.



L150R125

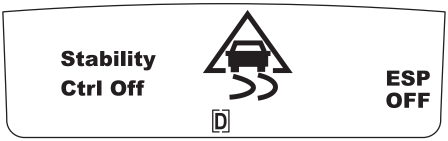


L150R065

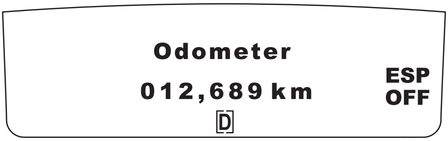
Stability control off (if fitted)

If the 'Stability Ctrl Off' animation illuminates while driving, without the ESP being turned off by the driver, it indicates that the ESP system is no longer functioning. Contact your Holden Dealer.

The 'Stability Ctrl Off' animation displays for 2 seconds. The animated symbol then reverts to the original trip computer display with a small **ESP OFF** icon on the right. The **ESP OFF** icon remains illuminated until the problem is rectified. Refer to Chapter 4 for more information the ESP system.



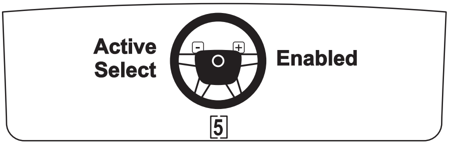
L150R123



L150R122

Active select (if fitted)

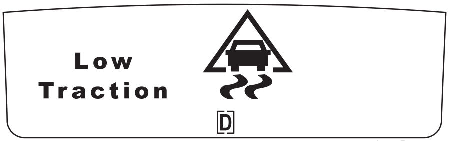
The automatic transmission 'Active Select' animated symbol and **A / S** icon illuminate when the transmission is operating in the active select mode. For information on the automatic transmission operation and displays, refer to Chapter 4.



L150R148

Low traction (if fitted)

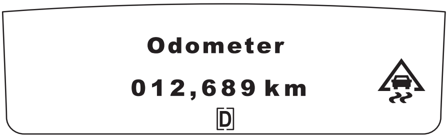
If the 'Low Traction' animation illuminates while driving, it indicates that the traction control system has sensed that the vehicle requires help with road grip and that the system is actively working to stop any wheel spin.



L150R065

WARNING / REMINDER INDICATIONS cont.

The 'Low Traction' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small low traction ⚠ icon on the right. The ⚠ icon remains illuminated as long as the low traction situation exists. Refer to Chapter 4 for more information on the traction control system.

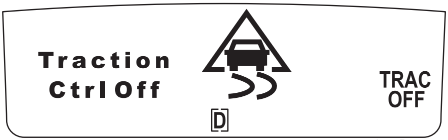


L150R066

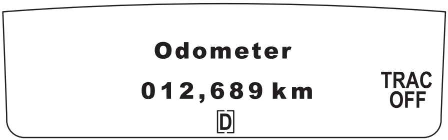
Traction control off (if fitted)

If the 'Traction Ctrl Off' animation illuminates while driving, without the traction control being turned off by the driver, it indicates that the traction control system is not working. Contact your Holden Dealer.

The 'Traction Ctrl Off' animation displays for 2 seconds. The animated symbol then reverts to the original trip computer display with a small **TRAC OFF** icon on the right. The **TRAC OFF** icon remains illuminated until the problem is rectified. Refer to Chapter 4 for more information on the traction control system.



L150R067

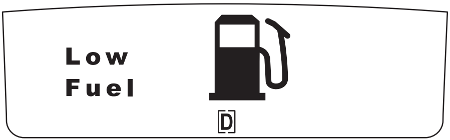


L150R068

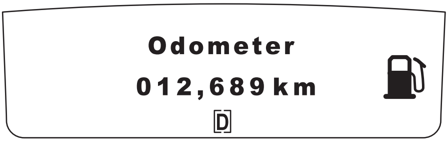
Low fuel

If the 'Low Fuel' animation illuminates when driving, it indicates that the fuel level is low.

The 'Low Fuel' animation displays until the MODE button on the trip computer switch is pressed. The trip computer then displays its calculation of kilometres to empty for 10 seconds before reverting to the original trip computer display with a small low fuel ⛽ icon on the right. The ⛽ icon remains illuminated until the fuel tank is filled above the low fuel level.



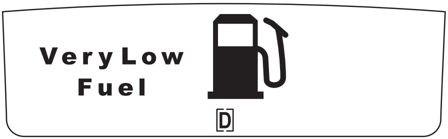
L150R076



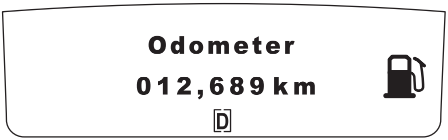
L150R077

Very low fuel

If the 'Very Low Fuel' animation illuminates when driving, it indicates that the fuel level is very low. The 'Very Low Fuel' animation displays until the MODE button on the trip computer switch is pressed. The trip computer then displays its calculation of kilometres to empty for 10 seconds before reverting to the original trip computer display with a small flashing low fuel ⛽ icon on the right. The ⛽ icon remains illuminated until the fuel tank is filled above the very low fuel level.



L150R071

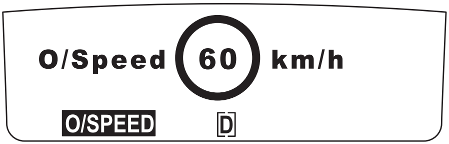


L150R077

WARNING / REMINDER INDICATIONS cont.

Overspeed

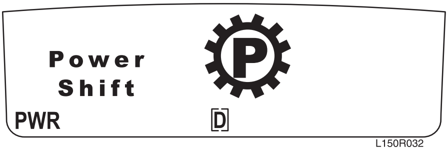
Overspeed is designed to warn you when you have exceeded your preselected speed. For information on the Overspeed displays, refer to 'Trip Computer' further on in this chapter.



L150R082

Power shift

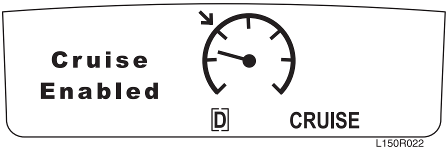
The automatic transmission 'Power Shift' animated symbol and **PWR** icon illuminate when the transmission is operating in the power mode. Refer to Chapter 4 for information on the automatic transmission operation and displays.



L150R032

Cruise control

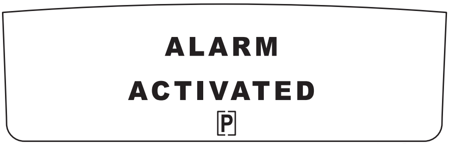
The 'Cruise Enabled' animated symbol and **CRUISE** icon illuminate when the cruise control is activated and ready for use. Refer to 'Cruise Control' further on in this chapter.



L150R022

Alarm

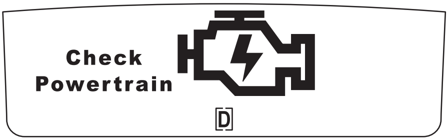
The alarm is triggered when any of the doors, bonnet or boot are opened or the vehicle's electrical system has been tampered with. Refer to Chapter 2 for information on the alarm displays.



L150R001

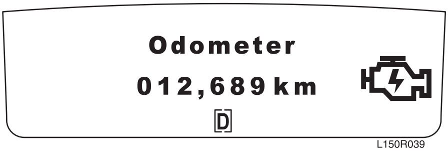
Check powertrain

If the 'Check Powertrain' animation illuminates when driving, it indicates an emission control related fault. Although the vehicle may still be driveable, it is recommended that you reduce your driving speed, do not tow heavy loads or heavily load the vehicle. Have the problem fixed as soon as possible. Your Holden Dealer has the correct diagnostic computer equipment and training to find and fix the problem.



L150R040

The 'Check Powertrain' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small icon on the right. The icon remains illuminated until the problem is rectified.



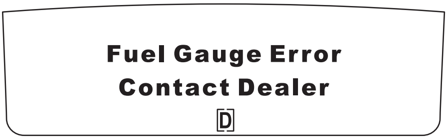
L150R039

WARNING / REMINDER INDICATIONS cont.

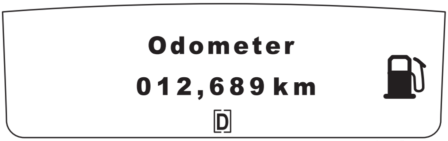
Fuel gauge error

If the 'Fuel Gauge Error Contact Dealer' animation illuminates while driving, a fault in the fuel level measurement system is indicated. Contact your Holden Dealer as soon as possible.

The 'Fuel Gauge Error' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small ⛽ icon on the right. The ⛽ icon remains illuminated until the problem is rectified.



L150R020

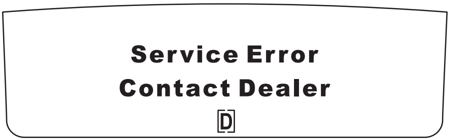


L150R077

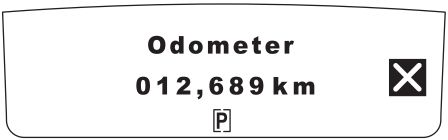
Service error

If the 'Service Error Contact Dealer' animation illuminates while driving, a fault in the instrument panel is indicated. Contact your Holden Dealer as soon as possible.

The 'Service Error' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small **X** icon on the right. The **X** icon remains illuminated until the problem is rectified.



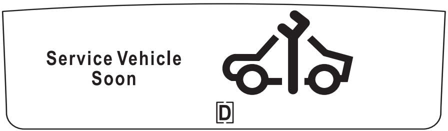
L150R100



L150R098

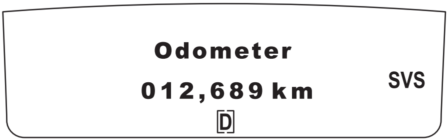
Service vehicle soon

If the 'Service Vehicle Soon' animation illuminates when driving, it indicates a non-emissions related fault in the electronic engine management system or the automatic transmission. Although the vehicle may still be driveable, it is recommended that you reduce your driving speed and do not tow heavy loads or heavily load the vehicle. Have the problem fixed as soon as possible. Your Holden Dealer has the correct diagnostic computer equipment and training to find and fix the problem.



L150R008

The 'Service Vehicle Soon' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small **SVS** icon on the right. The **SVS** icon remains illuminated until the problem is rectified.



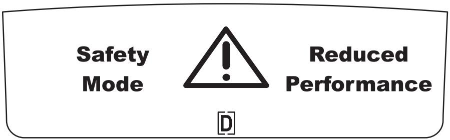
L150R168

WARNING / REMINDER INDICATIONS cont.

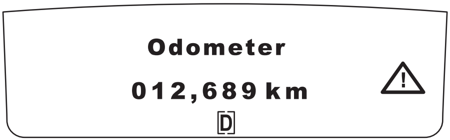
Safety mode

If the 'Safety Mode' animation illuminates when driving, it indicates a fault in the electronic throttle control system. Although the vehicle may still be driveable, the throttle available may be limited, resulting in reduced power. Have the problem fixed as soon as possible. Your Holden Dealer has the correct diagnostic computer equipment and training to find and fix the problem.

The 'Safety Mode' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small safety mode icon on the right. The icon remains illuminated until the problem is rectified.



L150R009

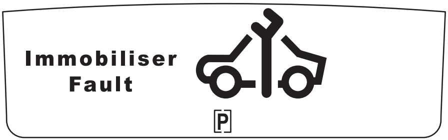


L150R012

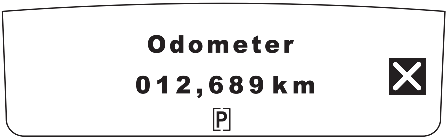
Immobiliser fault

If the 'Immobiliser Fault' animation illuminates while attempting to start the vehicle, a fault in the vehicle's immobiliser module is indicated. The vehicle will not start with an immobiliser fault. Contact your Holden Dealer to have the fault rectified.

The 'Immobiliser Fault' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small **X** icon on the right. The **X** icon remains illuminated until the problem is rectified.



L150R130

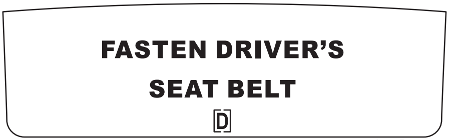


L150R098

Seat belt

The seat belt warning light is designed to remind vehicle occupants to fasten their seat belts. To check that the seat belt warning light is working, the warning light displays for approximately 8 seconds when the ignition is first switched on. The warning light remains illuminated until the driver's seat belt is fastened securely. If the driver's seat belt is not fastened within a certain time and / or distance the warning light flashes and a chime sounds.

The 'FASTEN DRIVER'S SEAT BELT' warning message displays and another chime sounds if the driver's seat belt is still not fastened when the vehicle speed reaches or exceeds 25 km/h.

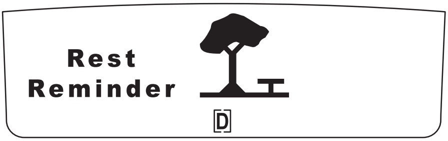


L150R097

Note: The warning message reverts to the original trip computer display when the vehicle speed drops below 25 km/h, whereas the warning light clears once the driver's seat belt is fastened securely. If the driver's seat belt is unfastened while the ignition is on, the warning light and chime sequence will start over.

WARNING / REMINDER INDICATIONS cont.

Rest reminder



L150R096

This feature reminds the driver that he or she may have been travelling for too long without a break. The rest reminder appears only after all warning displays, system check displays and Options menu selections have been completed.

When the ignition is switched on, a timer starts counting. After 2 hours of continuous driving:

- If the vehicle has a triple-window trip computer, the trip computer automatically switches over to the trip time on the side window and the centre window displays the Rest icon.
- If the vehicle has a single-window trip computer, only the centre window displays the Rest icon.

The 'Rest Reminder' wording remains stationary but the icon flashes to alert the driver of the rest reminder.

When the MODE button on the trip computer switch is pressed the display reverts back to the previously displayed trip computer screen.

The large icon reappears after a further 20 minutes, accompanied by a chime, unless the ignition has been turned off.

Fog lights

The icon illuminates when the fog lights are working. Refer further on in this chapter for information on the operation of the fog lights.

Security

The 🔒 warning light flashes (approximately once every second) when the vehicle immobiliser and security system is activated. The flash rate is slower (approximately once every 2 seconds) if there is a fault with the vehicle's immobiliser system.

High beam

The icon illuminates when the headlight high beams are in use.

Turn signals

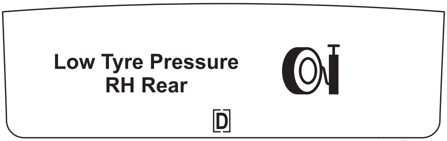
The appropriate arrow flashes when the lever on the right side of the steering column is moved up or down with the ignition turned on.

- Both arrows flash when the hazard warning flasher is switched on. Refer further on in this chapter for information on the hazard warning flasher.
- The indicators flash at a quicker rate if a globe has blown.

WARNING / REMINDER INDICATIONS cont.

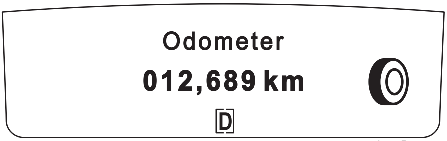
Low tyre pressure (if fitted)

If the 'Low Tyre Pressure...' animation illuminates when driving, it indicates that the inflation pressure in the tyre(s) indicated is low.



L150R139

The 'Low Tyre Pressure...' animation displays until the MODE button on the trip computer switch is pressed. The trip computer then reverts to the original trip computer display with a small low tyre pressure icon on the right.

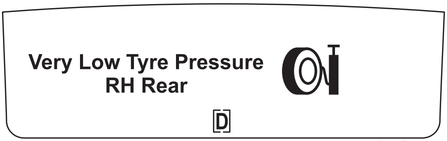


L150R140

The icon remains illuminated until the corresponding tyre is inflated to within a specified range recommended for the tyre fitted to the vehicle. Refer to Chapter 4 for information on the Tyre Pressure Monitoring System (TPMS).

Very low tyre pressure (if fitted)

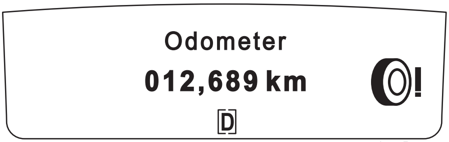
If the 'Very Low Tyre Pressure...' animation illuminates when driving, it indicates that the inflation pressure in the tyre(s)



L150R141

The 'Very Low Tyre Pressure...' animation displays until the MODE button on the trip computer switch is pressed.

The trip computer then reverts to the original trip computer display with a small very low tyre pressure icon on the right.



L150R142

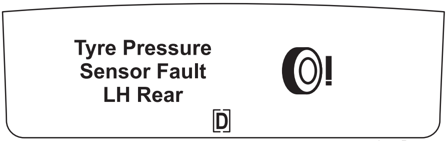
The icon remains illuminated until the corresponding tyre is inflated to within a specified range recommended for the tyre fitted to the vehicle. Refer to Chapter 4 for information on the Tyre Pressure Monitoring System (TPMS).

WARNING / REMINDER INDICATIONS cont.

Tyre pressure sensor fault (if fitted)

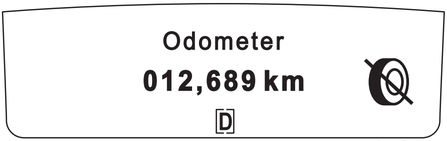
If the 'Tyre Pressure Sensor Fault...' animation illuminates when driving, it indicates a fault in the wheel sensor indicated. Contact your Holden Dealer to have the sensor fault rectified.

The 'Tyre Pressure Sensor Fault...' animation displays until the MODE button on the trip computer switch is pressed. The trip computer then reverts to the original trip computer display with a small tyre pressure sensor fault icon on the right.
The icon remains illuminated until the problem is rectified. Refer to Chapter 4 for information on the Tyre Pressure Monitoring System (TPMS).



Tyre Pressure
Sensor Fault
LH Rear

L150R143



Odometer
012,689 km

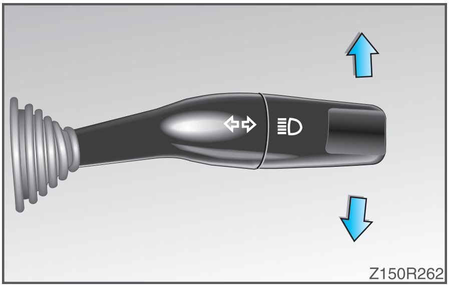
L150R144

TURN SIGNALS, HORN, TILT / REACH STEERING

Turn signals

The turn signals lever is on the right side of the steering column. To signal a turn, push the lever in the same direction you turn the steering wheel.

In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold. The lever returns to the neutral position when you release it.

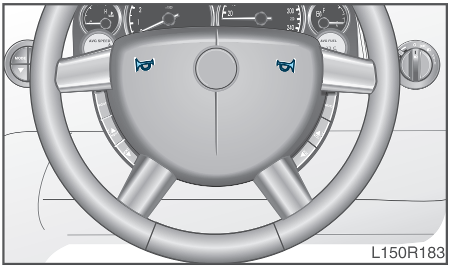


A green arrow on the instrument panel flashes when the lights are in operation.

Cornering lights (if fitted): When the turn signal lever is moved up or down and the exterior lights are on (either parkers or headlights), a cornering light illuminates until the lever returns to its neutral position. The cornering lights are additional lights in the front of the vehicle and are designed to illuminate the direction you are about to turn. Only one cornering light illuminates at a time. For example, moving the turn signal lever for a left turn causes the left cornering light to illuminate.

Horn

The horn is activated by pressing the horn symbol 📯, on either side of the steering wheel centre pad.



Tilt / reach steering

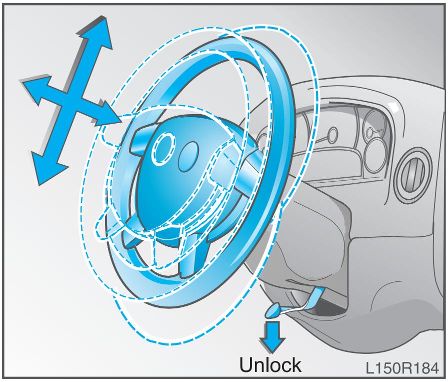
Move the lock lever under the steering column downwards.

Grasp the steering wheel and move it as required. It can be moved up or down, pulled towards you or pushed away from you.

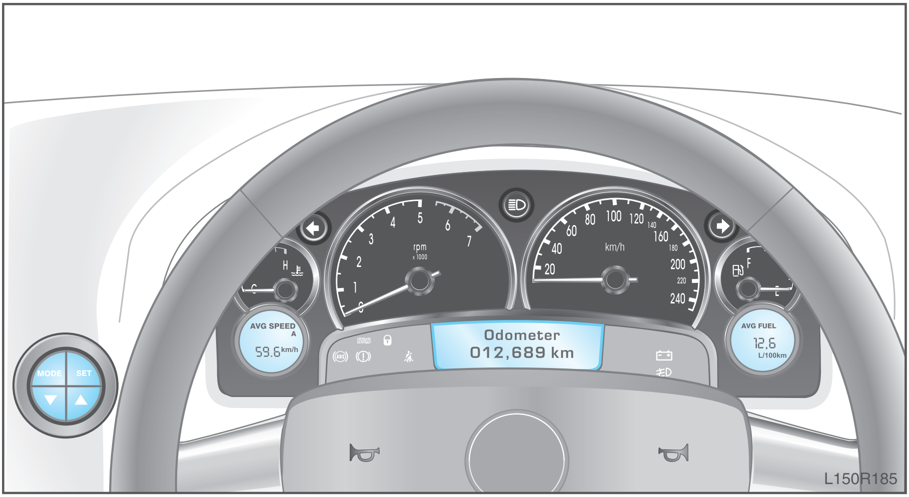
When the steering wheel is in the preferred position, move the lock lever up. Jiggle the steering wheel to ensure it has locked securely before driving.

WARNING:

As with all the other driver position controls, do not attempt to adjust the steering wheel while driving.



TRIP COMPUTER



The vehicle is fitted with a triple-window trip computer.

The buttons for the trip computer are located to the left of the gauges. The triple-windows for the trip computer are located directly beneath the gauges.

Tap the MODE button to scroll between the different sets of displays.

Speed-related displays are in the left window, distance-related displays in the centre and fuel-related displays on the right.

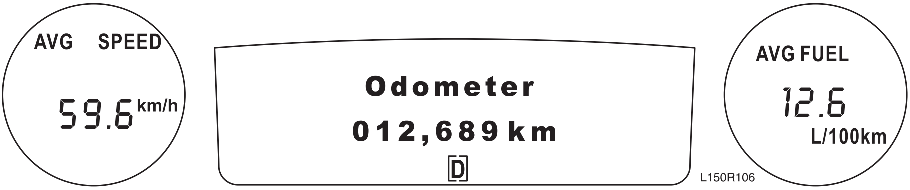
When the ignition is turned on, the trip computer displays the same functions as when the ignition was last turned off.

The trip computer can be reset when AVG SPEED or TRIP TIME are shown on the left window. To reset the trip computer, press the SET button for less than 2 seconds. Resetting does not affect the Odometer, Overspeed, Distance to empty, Time to arrival, Distance to arrival, Instantaneous fuel or Remaining fuel values.

Note:

- You can customise the trip computer to suit your requirements. Customisable functions and features are marked with an asterisk (*). Customising details, as well as additional operating notes, are shown further on in this chapter. Refer to ‘Options Menu’.
- If the wrong buttons are accidentally pressed, causing the display to show a anything other than normal, turn the ignition off then on again (only when the vehicle is stationary).

TRIP COMPUTER cont.



Average speed

Shows the average speed (while the engine is running) since the trip computer was reset.

Odometer

Records kilometres travelled since the vehicle was built.

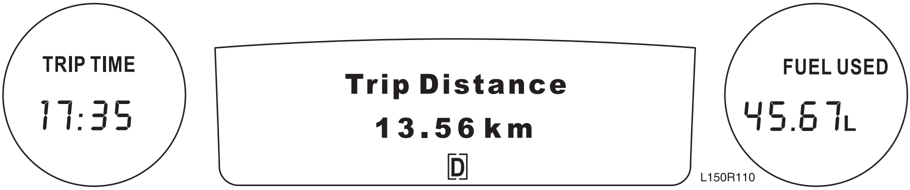
Average fuel

Shows average fuel used since the trip computer was reset. After resetting, a high fuel consumption figure may appear initially due to the short distance travelled and the large amount of fuel used when accelerating.

To reset the Average speed and Average fuel displays only, hold the SET button down for 8 seconds while this set of functions is displayed.

Note: To reset the Average speed and Average fuel displays along with the Trip time / Trip distance / Fuel used set of displays, press the SET button for less than 2 seconds while this set of functions display.

TAP MODE BUTTON



Trip time*

Shows the 'engine running' time since the trip computer was reset. If this exceeds 99 hours and 59 minutes, the trip time is displayed in hours only.

Trip distance*

Shows the kilometres travelled from the start of a particular trip.

Fuel used*

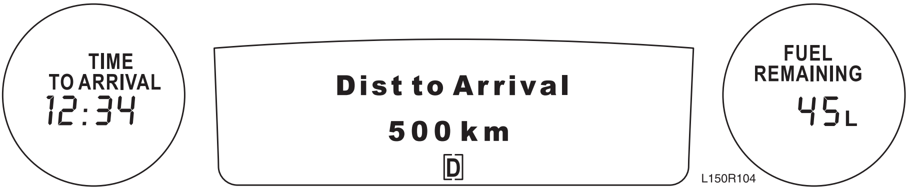
Shows the total litres of fuel used since the trip computer was reset.

To reset the trip distance to zero, hold the SET button down for 8 seconds while this set of functions display.

Note: To reset the Trip time / Trip distance / Fuel used set of displays along with the Average speed and Average fuel functions, press the SET button for less than 2 seconds while this set of functions display.

TAP MODE BUTTON

TRIP COMPUTER cont.



Time to arrival*

Shows trip time to arrival in hours and minutes, based on distance to arrival. If this exceeds 99 hours and 59 minutes, the time to arrival displays in hours only.

Distance to arrival*

At the start of a trip, estimate your distance to arrival (for example, from maps, road signs). Tap the ▼ or ▲ button until the display shows your estimated trip distance. When you drive off, the computer constantly updates your time to arrival, based on changing driving speeds. You can use the ▼ or ▲ button to adjust the kilometres any time this display is shown.

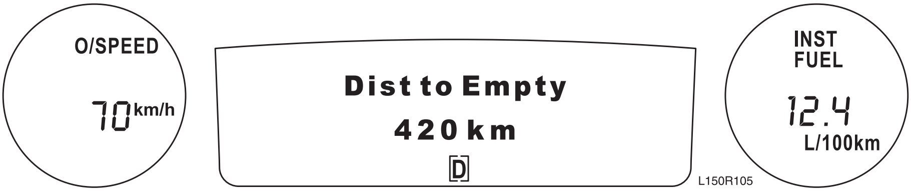
Remaining fuel*

Shows the litres of fuel left in the fuel tank, rounded to the nearest 5 litres.

When fuel level is down to approximately 8 litres, 'LO' displays instead of litres.

TAP MODE BUTTON

TRIP COMPUTER cont.



Overspeed

The overspeed sets the speed you do not want to exceed. For example, if driving in a 70 km/h zone, set overspeed to 70 by tapping the ▼ or ▲ button. The overspeed setting displays in the left window, while the animated warnings are shown in the centre display. When the vehicle speed exceeds the setting, the overspeed warning message and an audible chime warns you that you are exceeding the preset value. At that time the trip computer automatically shows the overspeed display, allowing you to make adjustments if required.

Distance to empty

An estimate of how far your vehicle will travel on the current amount of fuel. It is based on your previous fuel usage and is frequently updated. Therefore, as conditions become suited to more economical driving the distance to empty may actually increase, for example from city to highway driving.

In addition, movement of fuel in the tank can cause the reading to fluctuate when the fuel level is low.

Instantaneous fuel

Shows instantaneous fuel consumption in litres per 100 km when driving. When speed drops below 10 km/h the usage is shown in litres per hour.

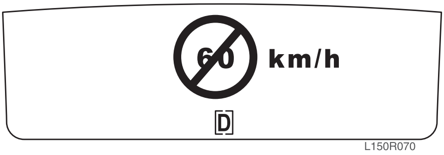
If the overspeed is maintained for longer than 10 seconds but is less than 15 km/h over the set overspeed value, the overspeed reverts to the original trip computer display with a small O/SPEED icon on the left.

If the overspeed is maintained for longer than 10 seconds and is more than 15 km/h over the set overspeed value, the overspeed warning reverts to a flashing O/SPEED icon.

Overspeed is adjustable in 5 km/h units and works at speeds between 20 km/h and 200 km/h. Tap the ▼ or ▲ button as required or hold a button to scroll quickly to a speed. Briefly press the SET button to set the overspeed to the speed at which the vehicle is currently travelling. Press and hold the SET button for at least 2 seconds (when this display is showing) to turn the overspeed warning on or off. Overspeed presets can also be chosen. Refer to 'Overspeed presets' further on in this section.

Underspeed chime*

Overspeed provides a chime when the travelling speed exceeds the overspeed chosen value, whereas underspeed provides a chime to indicate when the travelling speed again drops below the overspeed.



TRIP COMPUTER cont.

Overspeed presets

Instead of adjusting overspeed up and down in 5 km increments (see previous page), you can set four commonly used speeds. For example 60, 80, 100 and 110 km/h.

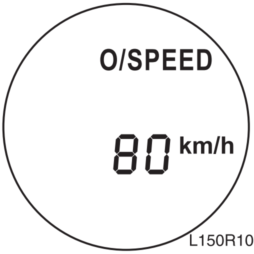
Hold down the MODE button for 2 seconds when the overspeed display is shown. The display changes from normal overspeed to overspeed preset.

P1 is the first preset number, with a default setting of 60 km/h.

Tap the ▲ button to see the second preset, P2, which has a default setting of 80 km/h, P3 has a default setting of 100 km/h and P4 of 110 km/h. Tap the ▼ or ▲ button to move between the preset numbers.

The overspeed preset display has now replaced the normal overspeed display in the set of displays. Tap the MODE button to scroll through the other displays.

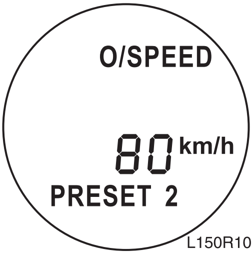
To change the display back to normal overspeed, hold down the MODE button for 2 seconds while the overspeed preset display is shown.



L150R108

Normal overspeed

Hold MODE button for 2 seconds



L150R109

Overspeed preset

Altering overspeed presets

Note: To change the overspeed presets, the vehicle must be stationary.

The default settings of 60, 80, 100 and 110 km/h can be changed for your individual preference.

To alter, ensure that the preset you wish to change is showing, for example P2 80 km/h. Then, briefly press the SET button. The display starts to flash. Use the ▼ or ▲ button to adjust the setting. When correct, briefly press the SET button. Each preset can be changed in this way.

The presets are automatically arranged in ascending order.

One or more presets can be assigned to 'Off' by reducing the preset down to '0'. When driving, you will then only have three or less presets to choose from. To turn back on, select the 'Off' preset (when the vehicle is stationay) and use the ▲ button to increase the number.

If the ▼ and ▲ buttons are briefly pressed while driving, the overspeed setting is changed to the speed at which you are travelling (in multiples of 5 km/h).

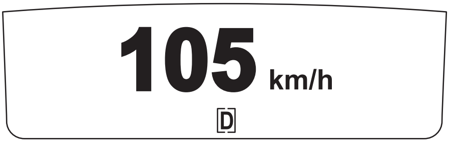
If the SET button is pressed for 2 seconds, either while driving or stationary, overspeed is turned completely off or on.

TRIP COMPUTER cont.

TAP MODE BUTTON

Digital speedometer*

When the digital speedometer is enabled from the Options menu, the vehicle's speed is also displayed numerically on the instrument cluster's centre display.

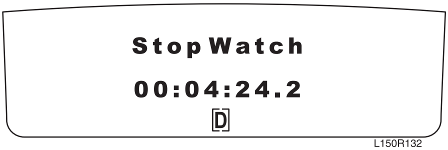


L150R133

TAP MODE BUTTON

Stop watch*

The stop watch function, when enabled, records elapsed time. For example, it can be used to measure the time taken to travel between two points on a trip. To start or stop the stop watch, press the SET button. To reset the stop watch, press and hold the MODE button for more than 3 seconds. A confirmation beep sounds.



L150R132

ADDITIONAL FUNCTIONS

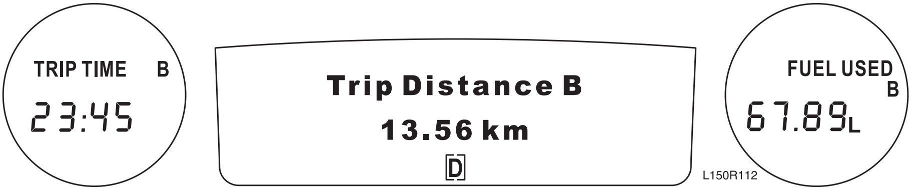
The following information is provided about the additional, slightly more complex, trip functions that are provided in the trip computer.

Trip A / Trip B*

Trip A / Trip B can be enabled or disabled by any one of the following methods:

- When the Time to arrival / Distance to arrival / Fuel remaining set of windows are displayed, hold the MODE button down for 2 seconds. Instead of the Time to arrival set of displays, the trip computer shows Trip B details.

  Note: Time to arrival / Distance to arrival / Fuel remaining set of windows must be turned on using the Options menu for this method to work. Refer to 'Options Menu' further on in this chapter.
- From the Options menu. Refer to 'Options Menu' further on in this chapter.



L150R112

Press the MODE button to view the displays. There are now two different sets of trip displays counting; the original set of trip displays (labelled A while B is turned on) and a new set of trip displays, labelled B. This is useful on a long trip, as Trip B can be reset at the beginning of the journey and then locked away (by pressing the MODE button for 2 seconds when Trip B is shown). Time to arrival / Distance to arrival / Remaining fuel will again be shown on the display, but Trip B is still running in the background. The original trip display can be used for short distances during the journey. Trip B can be viewed at any time by pressing the MODE button for 2 seconds when Distance to arrival is shown.

Note: If the Trip A and Trip B function is selected, the Average speed and Average fuel displays indicate Trip A.

TRIP COMPUTER cont.

Service due

A service reminder message is built into the trip computer.

The reminder message first appears 1000 km before the service is due, giving you time to arrange for the service to be carried out. The message is shown on the trip computer for 10 seconds whenever the vehicle's ignition is switched on or off, until the trip computer is reset. Refer to the service booklet in the glovebox for further information on servicing.

Note: This message is calculated only by distance. Remember that if you are driving infrequently, special servicing may be required. Refer to the service booklet in the glovebox.

The Service due message is reset when your Holden Dealer services the vehicle.

Trip computer notes:

- If the wrong buttons are accidentally pressed, causing the display to show anything other than normal, turn the ignition off then on again (only when the vehicle is stationary).
- Several warning lights are linked to the instrument panel display windows. Refer to 'Warning / Reminder Indications' previously in this chapter.
- When the Overspeed warning symbol is first shown, the overspeed trip computer display is automatically shown for 10 seconds. This indicates the preselected speed and allows you to adjust it if required. After 10 seconds, the trip computer returns to its previous display.
- Some displays change the units of measurement over time. For example, the Time to arrival shows hours only above 99 hours and 59 minutes, and hours and minutes below. Time to arrival also shows 10 minute units above 2 hours, 5 minute units below 2 hours and 1 minute units below 10 minutes.
- If the **X** symbol or a ‘Service Error’ message displays, it indicates a fault in the trip computer / instrument panel. Contact your Holden Dealer.
- The vehicle is fitted with a personal identity key system (explained in Chapter 2) which remembers different settings used by different keys. The trip computer remembers the last selected settings. When the ignition is turned on with the key, the last set of displays and overspeed settings are shown.

OPTIONS MENU

The Options menu allows you to customise some of the vehicle features using the trip computer switch and display.

Note: Only features that are fitted to the vehicle are displayed.

Entering options menu

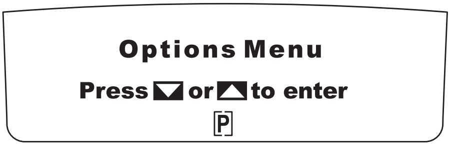
The Options menu can be displayed when the vehicle is stationary or moving slowly. To access the Options menu:

- When the vehicle is stationary, hold down the MODE button while turning the ignition from off to on.
- When the vehicle has been started, the system check completed and the vehicle speed is less than 10 km/h, the Options menu displays for 3 seconds.

Note:

- If the vehicle speed exceeds 10 km/h, the Options menu disappears and the display reverts back to the previous trip computer function.
- The Options menu is not accessible if an alarm warning has been activated or a warning symbol on the instrument panel has been triggered.

With the Options menu message displayed, use the trip computer ▼ or ▲ button to enter the menu.



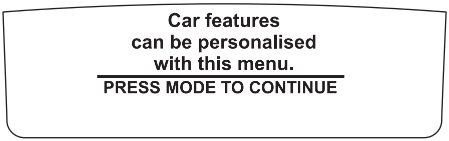
Options Menu

Press ▼ or ▲ to enter

P

L150R117

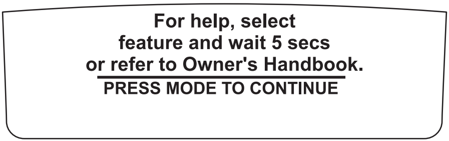
Help screens: In the Options menu there are help screens to assist the driver to understand the features. If a menu item is selected and the screen is left for more than 5 seconds, a help screen pops up to inform the driver how to operate the selected feature.



**Car features
can be personalised
with this menu.**

PRESS MODE TO CONTINUE

L150R053



**For help, select
feature and wait 5 secs
or refer to Owner's Handbook.**

PRESS MODE TO CONTINUE

L150R054

Navigating the menu

- To scroll through the different customisable features, press the MODE button.
- To change the setting, use the ▼ and ▲ buttons.
- To continue, press the MODE button.
- To exit the Options menu perform one of the following:
  - Press the MODE button to scroll through to the exit screen.
  - Drive the vehicle at more than 10 km/h.
  - Switch the ignition off (only if stationary).

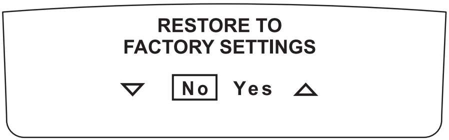
OPTIONS MENU cont.

Options

Once in the Options menu, the driver can step through the following series of options:

RESTORE TO FACTORY SETTINGS

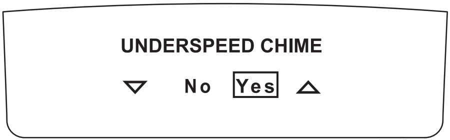
This option restores the instrument panel, entertainment system and other general vehicle systems to the factory default settings. Use the ▼ or ▲ button to select 'Yes' or 'No'. Press the MODE button to continue. If 'Yes' is selected, the next feature displays after a 2 second delay. This delay allows time for the default parameters to be set.



L150R049

UNDERSPEED CHIME

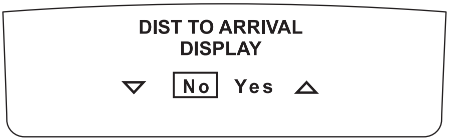
This option is used to enable / disable the underspeed chime. Overspeed provides a chime when your travelling speed exceeds the overspeed chosen value, whereas underspeed provides an additional chime to indicate when your travelling speed again drops below the overspeed. Use the ▼ or ▲ button to select 'Yes' or 'No'. If 'Yes' is selected, the underspeed chime is activated (Default = No). Press the MODE button to continue.



L150R115

DIST TO ARRIVAL DISPLAY

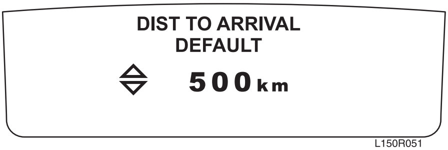
This option is used to enable or disable the Time to arrival / Distance to arrival / Remaining fuel set of displays. This set of displays is explained previously in this chapter. Use the ▼ or ▲ button to select 'Yes' or 'No'. If 'Yes' is selected, the Time to arrival / Distance to arrival / Remaining fuel set of displays is activated (Default = No). Press the MODE button to continue.



L150R050

DIST TO ARRIVAL DEFAULT

The Distance to arrival can be reset (when not in Options menu) by pressing the SET button for less than 2 seconds. The distance resets to 500 km, which is the default setting. When in the Options menu, the default setting can be altered up or down with the ▼ or ▲ buttons. When correct, press the MODE button to continue.

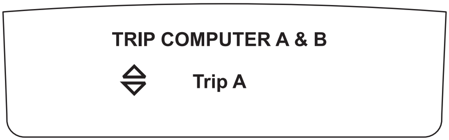


L150R051

OPTIONS MENU cont.

TRIP COMPUTER A & B

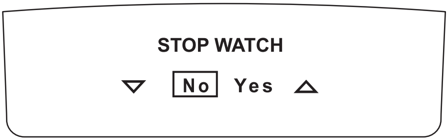
This option is used to select either one or two Trip time / Trip distance / Fuel used set of displays. This set of displays is explained previously in this chapter. Use the ▼ or ▲ button to select 'Trip A' or 'Trip A & B' (Default = Trip A). Press the MODE button to continue.



L150R114

STOP WATCH

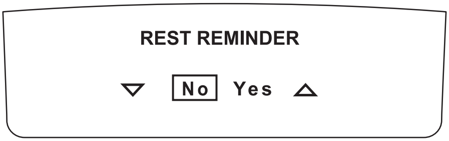
This option is used to enable or disable the stop watch display. This display is explained previously in this chapter. Use the ▼ or ▲ button to select 'Yes' or 'No'. If 'Yes' is selected, the stop watch display is activated (Default = No). Press the MODE button to continue.



L150R113

REST REMINDER DISPLAY

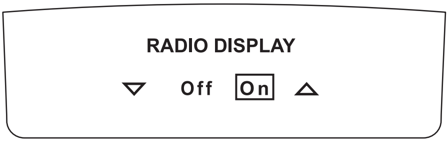
This option is used to enable or disable the rest reminder display on the instrument panel. This display is explained previously in this chapter. Use the ▼ or ▲ button to select 'Yes' or 'No'. If 'On' is selected, the rest reminder display is activated (Default = No). Press the MODE button to continue.



L150R063

RADIO DISPLAY

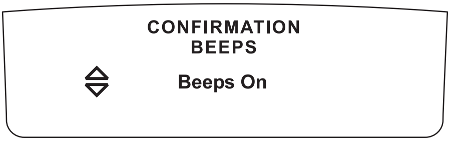
This option is used to enable or disable the entertainment system display on the instrument panel. Detailed information on the operation of the radio and CD is provided in Chapter 1B. Use the ▼ or ▲ button to select 'On' or 'Off'. If 'On' is selected, the Radio display is activated (Default = On). Press the MODE button to continue.



L150R062

CONFIRMATION BEEPS

This option is used to enable or disable the audio system confirmation beeps function. This function is explained further in the Audio System Handbook located in the glovebox. Use the ▼ or ▲ button to select 'Beeps On', 'CD Load & Eject Only' or 'Beeps Off'. If 'Beeps On' is selected, the audio system confirmation beeps function is activated (Default = Beeps On). Press the MODE button to continue.

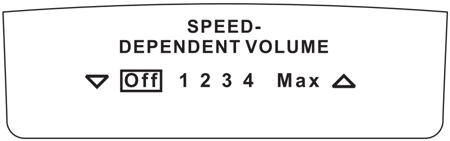


L150R044

OPTIONS MENU cont.

SPEED-DEPENDENT VOLUME

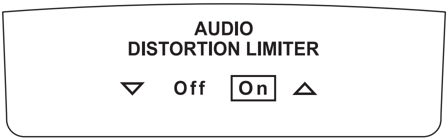
This option is used to enable or disable the audio system speed-dependent volume function. This function is explained further in Chapter 1B Audio. Use the ▼ or ▲ button to adjust the setting to ‘Off’, ‘1’, ‘2’, ‘3’, ‘4’ or ‘Max’ (Default = 2). Press the MODE button to continue.


SPEED-
DEPENDENT VOLUME
▽ Off 1 2 3 4 Max △

L150R064

AUDIO DISTORTION LIMITER

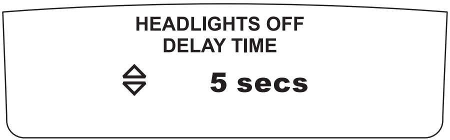
This option is used to enable or disable the audio system distortion limiting function. This function is explained further in Chapter 1B Audio. Use the ▼ or ▲ button to select 'On' or 'Off'. If 'On' is selected, the audio distortion limiting function is activated (Default = On). Press the MODE button to continue.


AUDIO
DISTORTION LIMITER
▽ Off On △

L150R043

HEADLIGHTS OFF DELAY TIME

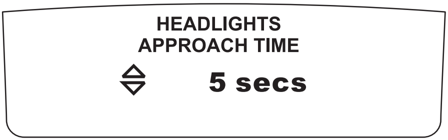
This option is used to adjust the headlights off time delay. This function is explained further on in this chapter. Use the ▼ or ▲ button to adjust the delay setting between 0 and 180 seconds (Default = 1 second). Press the MODE button to continue.


HEADLIGHTS OFF
DELAY TIME
5 secs

L150R058

HEADLIGHTS APPROACH TIME

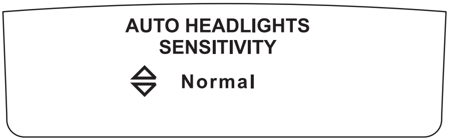
This option is used to adjust the headlights approach illumination time delay. This function is explained further on in this chapter. Use the ▼ or ▲ button to adjust the delay setting between 0 and 90 seconds (Default = 30 seconds). Press the MODE button to continue.


HEADLIGHTS
APPROACH TIME
5 secs

L150R057

AUTO HEADLIGHTS SENSITIVITY

This option is used to adjust the automatic headlights on sensitivity. This function is explained further on in this chapter. Use the ▼ or ▲ button to adjust the sensitivity setting to 'Early', 'Normal' or 'Late' (Default = Normal). Press the MODE button to continue.

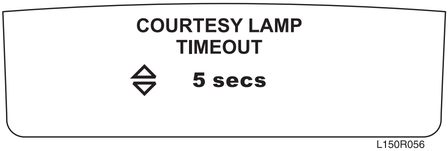

AUTO HEADLIGHTS
SENSITIVITY
Normal

L150R059

OPTIONS MENU cont.

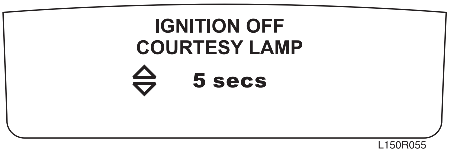
COURTESY LAMP TIMEOUT

This option is used to adjust the length of time that the interior courtesy lamp remains illuminated after opening a door or unlocking the vehicle (at night only). Use the ▼ or ▲ button to adjust the time setting between 0 and 255 seconds (Default = 30 seconds). Press the MODE button to continue.


COURTESY LAMP
TIMEOUT
5 secs
L150R056

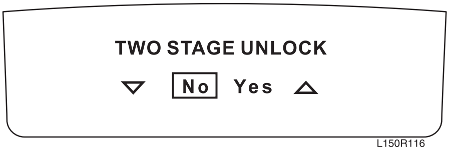
IGNITION OFF COURTESY LAMP

This option is used to adjust the length of time that the interior courtesy lamp remains illuminated after the ignition is turned off (at night only). Use the ▼ or ▲ button to adjust the time setting between 0 and 255 seconds (Default = 30 seconds). Press the MODE button to continue.


IGNITION OFF
COURTESY LAMP
5 secs
L150R055

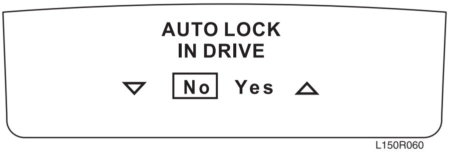
TWO STAGE UNLOCK

This option is used to enable or disable the two stage door unlock function. This function is explained in detail in Chapter 2. Use the ▼ or ▲ button to select 'Yes' or 'No'. If 'Yes' is selected, the Two Stage Unlock function is activated (Default = Yes). Press the MODE button to continue.


TWO STAGE UNLOCK
No
Yes
L150R116

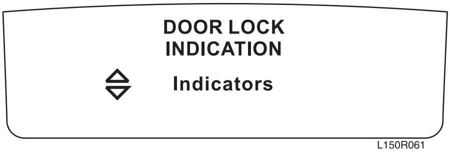
AUTO LOCK IN DRIVE

This option is used to enable or disable the automatic door locking when in Drive function. This function is explained in detail in Chapter 2. Use the ▼ or ▲ button to select 'Yes' or 'No'. If 'Yes' is selected, the Auto Lock In Drive function is activated (Default = No). Press the MODE button to continue.


AUTO LOCK
IN DRIVE
No
Yes
L150R060

DOOR LOCK INDICATION

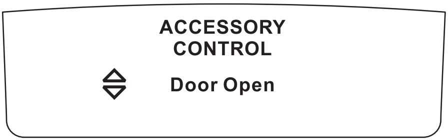
This option is used to select the type of indication provided to the driver upon locking and unlocking the vehicle's doors. This function is explained in detail in Chapter 2. Use the ▼ or ▲ button to select 'Indicators' or 'Indicators & Horn' (Default = Indicators). Press the MODE button to continue.


DOOR LOCK
INDICATION
Indicators
L150R061

OPTIONS MENU cont.

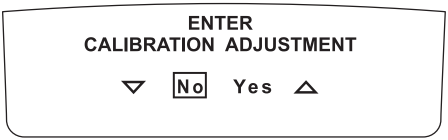
ACCESSORY CONTROL

This option is used to enable or disable the accessories timeout function. This function is explained in detail in Chapter 3. Use the ▼ or ▲ button to select 'Off' or 'Door Open' (Default = Door Open). Press the MODE button to continue.



ENTER CALIBRATION ADJUSTMENT

This option is used to calibrate the trip computer distance and fuel figures. The trip computer uses different calibration numbers in its calculations. These figures are preset for the standard vehicle and do not have to be adjusted. However, each vehicle varies this feature due to variables such as tyre size and tolerances. The facility is provided to adjust each figure for greater accuracy.

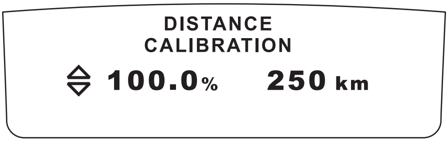


Use the ▼ or ▲ button to select 'Yes' or 'No'. If 'Yes' is selected, the trip computer enters into calibration mode, Distance calibration adjustment. If 'No' is selected, the menu advances to the EXIT OPTIONS MENU. Press the MODE button to continue.

DISTANCE CALIBRATION

If Distance calibration is not required, press the MODE button to advance to Fuel calibration.

To check or adjust the distance calibration before entering Options menu:



1. Line the vehicle's front wheels against a highway kilometre shield post.
2. Press the MODE button to display the Trip distance screen.
3. Press the SET button for less than 2 seconds when Trip distance is showing (to zero the Trip distance).
4. Drive to another shield post (between 10 km and 500 km) and stop with the front wheels lined up again.
5. Note the real distance between the shield posts and the distance on the Trip distance display.
6. If the noted distances are different, enter the Options menu and access the Distance calibration option. The Trip distance is shown in the centre display. Press the ▼ or ▲ button to adjust the centre display to show the real distance indicated by the shield posts.
7. Press the MODE button to continue on to Fuel calibration.

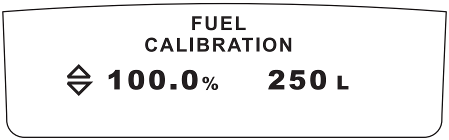
Note:

- The Distance calibration % automatically adjusts as the trip distance is adjusted. The default Distance calibration is 100.0%, with an adjustment range of 80% to 120.0%.
- Altering the Distance calibration does not affect the odometer.

OPTIONS MENU cont.

FUEL CALIBRATION

If Fuel calibration is not required, press the MODE button to advance to the EXIT OPTIONS MENU.



L150R047

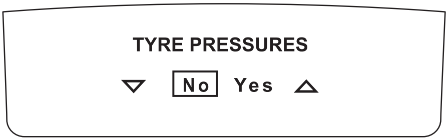
To check or adjust the Fuel calibration, work out the following before entering Options menu:

1. Press the SET button for less than 2 seconds when Fuel used is showing in the right-hand window of the instrument panel display (to reset the Fuel used to zero).
2. For at least five consecutive fuel fills, record the total litres added (but no more than 500 litres), according to the service station fuel bowser.
3. If this is different to the Fuel used reading, enter Options menu and access the Fuel calibration option. The Fuel used is shown in the centre display. Press the ▼ or ▲ button to adjust the display to show the actual total Fuel used according to the service station fuel bowser.
4. Press the MODE button to continue to 'EXIT OPTIONS MENU'.

Note: The Fuel calibration % automatically adjusts as the Fuel used is adjusted. The default Fuel calibration is 100.0%, with an adjustment range of 80% to 120.0%.

TYRE PRESSURES

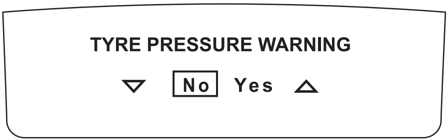
This option is used to enable or disable the tyre pressure monitoring display on the instrument panel. This function is explained in detail in Chapter 4. Use the ▼ or ▲ button to select 'Yes' or 'No'. If 'Yes' is selected, the tyre pressure monitoring display is activated (Default = Yes). Press the MODE button to continue.



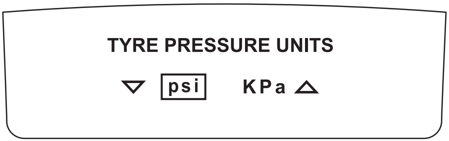
L150R019

TYRE PRESSURE WARNING

This option is used to enable or disable the low tyre pressure warning display on the instrument panel. This display is explained previously in this chapter. Use the ▼ or ▲ button to select 'Yes' or 'No'. If 'Yes' is selected, the low tyre pressure warning display is activated (Default = Yes). Press the MODE button to continue.



L150R041

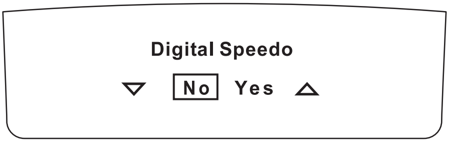


L150R118

OPTIONS MENU cont.

DIGITAL SPEEDO DISPLAY

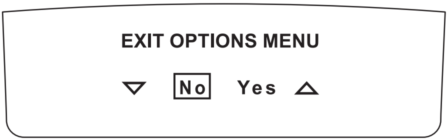
This option is used to enable or disable the digital speedometer display on the instrument panel. This display is explained previously in this chapter. Use the ▼ or ▲ button to select 'Yes' or 'No'. If 'On' is selected, the digital speedometer display is activated (Default = Yes). Press the MODE button to continue.



L150R119

EXIT OPTIONS MENU

This option is used to either exit the Options menu or to return to the start of the Options menu. Use the ▼ or ▲ button to select 'Yes' or 'No'. If 'Yes' is selected, the trip computer exits calibration mode and returns to the previous trip computer display. If 'No' is selected, the menu returns to the start of the Options menu, 'RESTORE TO FACTORY SETTINGS' display.



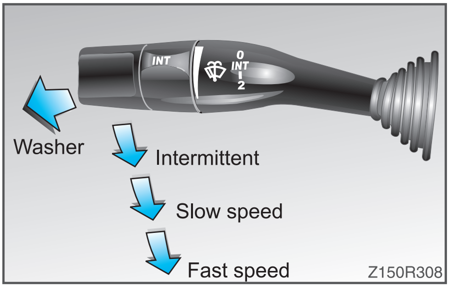
L150R052

WIPERS AND WASHERS

The lever on the left of the steering column controls the wipers and washers, which operate when the ignition is turned to the On or Accessories positions.

Wipers and washers

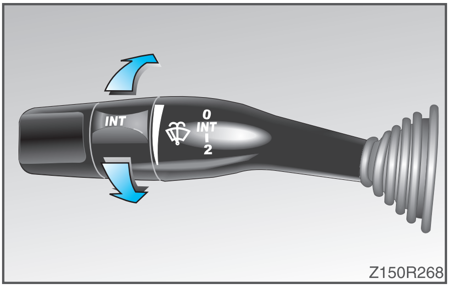
Never operate the wipers on dry glass, as this will damage the rubber and scratch the glass. To spray water onto the windscreen, pull the lever towards you and hold as long as required. This automatically turns on the wipers for a short time, if not already operating.



Push the lever down to turn on the wipers. Hold the lever just off from the first stop for the wipers to sweep intermittently (once every few seconds). The wipers sweep intermittently for as long as the lever is held.

Pushing the lever to the first stop switches the wipers to the intermittent position and allows you to release the lever.

Pushing the lever to the second stop turns the wipers to slow speed. Pushing the lever further again to the third stop, turns the wipers to the fast speed.



Variable intermittent: The frequency of intermittent wipe can be varied by moving the middle section of the lever, marked 'INT'. Rotate the section up for a more frequent wipe, or down for a less frequent wipe.

In addition, the intermittent wipe speed is road speed dependent, which means that as the vehicle speeds up, so do the wipers.

Refer to Chapter 7 when topping up the washer fluid.

LIGHTS

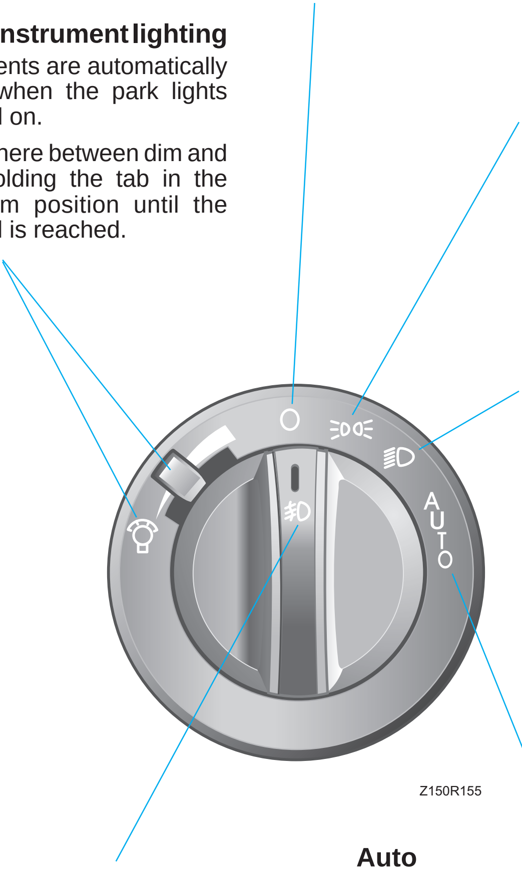
OFF
All lights off.

Dimmer – instrument lighting
The instruments are automatically illuminated when the park lights are switched on.

Adjust anywhere between dim and bright by holding the tab in the bright or dim position until the desired level is reached.

Park lights
Turns on the park, tail, rear licence plate and instrument panel lights.

Headlights
Turns on the headlights (in addition to all the park lights).



Fog lights
When the light switch is turned to park lights or headlights, pull the switch outwards to turn the fog lights on and push the switch inwards to turn the fog lights off. The fog light graphics on the switch illuminate with park lights and on / off indication is displayed on the instrument panel.

Auto
Headlights and park lights automatically switch off and on, as required. High / low beam selection must still be manually controlled.

The light sensor is centrally mounted on the top of the dashboard. Be careful not to cover up the sensor, as this may affect operation. Occasionally wipe the sensor clean.

LIGHTS cont.

Automatic headlights

When the headlight switch is in the AUTO position, the headlights and park lights automatically switch off and on with the ignition switch or through the approach lighting feature. Refer to 'Headlights on when approaching the vehicle' below. High and low beam selection must still be manually controlled.

Automatic headlight sensitivity

The headlights can be set to come on automatically at different light levels. The headlight sensitivity can be adjusted to Early, Normal or Late. Refer to 'Options Menu' previously in this chapter.

WARNING:

The automatic headlight sensor cannot replace the driver's personal judgement of the prevailing light conditions. For example, the sensor is unable to detect foggy conditions. In situations such as this, switch on the headlights manually, otherwise your safety and that of other road users could be endangered.

Automatic headlights off

Leaving the headlights or park lights on when the engine is not running will eventually flatten the battery. To prevent this, the headlights and park lights switch off when the ignition is switched from on to off and the driver's door is opened; the vehicle senses that the driver has forgotten to switch off the lights. The lights stay off until the ignition is switched on, or the lights are turned on manually via the headlight switch.

The headlights can be set to automatically switch off after you have locked the vehicle and walked away, which is useful for illuminating a path for example. To set or adjust the time delay from when the driver's door is opened to when the lights automatically switch off. Refer to 'Options Menu' previously in this chapter.

If you wish to have the lights on when leaving the vehicle, wait until they have been automatically switched off, then turn the headlight switch first to off, then to park lights or headlights.

Headlights on when approaching the vehicle

This feature is designed to provide additional security when returning to the vehicle at night. When the unlock button on the ignition key is used, the vehicle's exterior lights illuminate for a predefined time or until the vehicle is locked.

However, the lights only turn on to the position that the headlight switch is in when the vehicle is left. That is, if the switch is in Auto or Headlights, the headlights will illuminate, if the switch is in the park light position, the park lights will illuminate and if the switch is off, no lights will illuminate.

Refer to 'Options Menu' previously in this chapter, to set or adjust the time the headlights stay on after the unlock button has been pressed.

Headlights and dimming instruments note

When the headlights are switched on, the instruments are automatically illuminated. Once the instruments are illuminated, the driver has the ability to adjust the brightness (see previous page). Some illuminated areas of the vehicle have been linked to the brightness control (for example, the trip computer, headlight switch and radio). This means that the interior lighting ambience can be adjusted to your preference. When the headlights are turned off then on, the brightness level reverts to the last adjusted setting.

LIGHTS cont.

Personal identity keys: When the key is inserted in the ignition and turned on, the system identifies the key and sets the brightness and headlight time delay to the last adjustments used for that key. Also refer to Chapter 2.

Fog lights

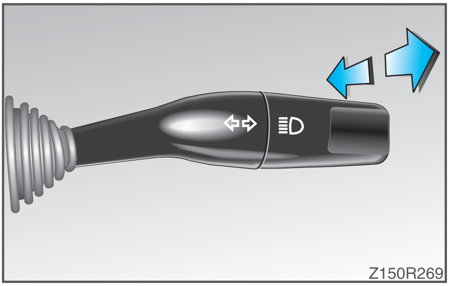
Fog lights are designed to provide a different illumination of the road to the usual headlight beam. Depending on the density of the fog, a different combination of lights will improve vision. For instance, in very heavy fog, vision may be improved by turning the headlights off, and just having the park lights and fog lights on. When fog lights are turned on, a ⋕D symbol illuminates on the instrument panel.

Note: Driving speed should be reduced in fog. It is recommended that you check your state's laws regarding use of fog lights when driving.

High / low beam

High and low beam is controlled by the lever on the right side of the steering wheel column. With the headlights on, push the lever away from you until you feel a click, then release it. The headlights change from low to high beam. When high beam is selected, a blue ≣D symbol on the instrument panel displays.

It is also possible to flash the high beam lights for signalling purposes (even if the headlights and / or ignition are switched off). Pull the lever towards you; the lights remain on high beam as long as the lever is held.

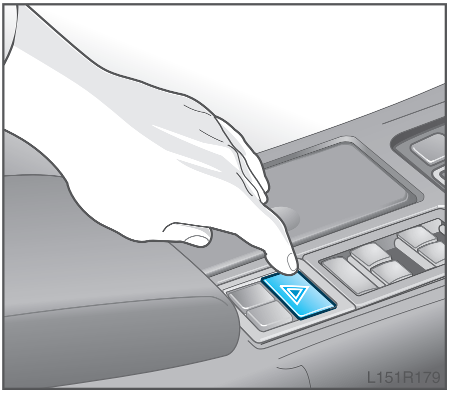


Hazard warning flasher

Press the button (illustrated) to turn the hazard warning flasher on and off. The hazard warning flasher works regardless of the ignition position. When the hazard warning flasher is turned on, all turn signals flash continuously.

Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard, day or night.

Note: Use of the hazard warning flashers while the vehicle is moving is illegal in some states and countries.



CLOCK, RADIO, CD AND DVD (if fitted)

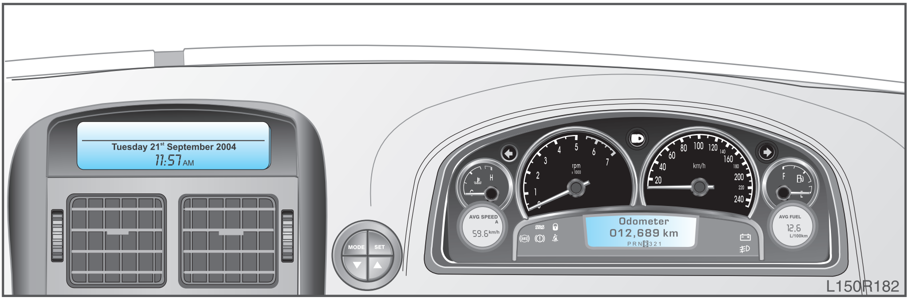
Clock, radio, CD and DVD (if fitted)

Detailed information on the operation of the radio, CD and DVD is provided by the Audio System Handbook in the glovebox.

Operating information for adjusting time, adjusting the antenna height, Personal Identification Number (PIN) and remote control of the radio via the steering wheel is provided on these pages.

Information displays

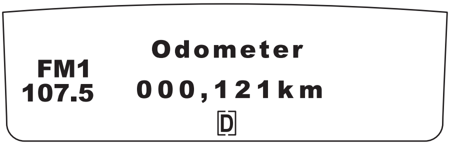
All of the relevant information to radio and CD operation can be found on the vehicle's information display located on the dashboard above the centre air vents. If the 'Radio Display' is turned on in the Options menu (refer previously in this chapter), then the audio system information is also shown on the instrument panel centre display.


Tuesday 21st September 2004
11:57 AM
MODE
SET
AVG SPEED
59.6 km/h
Odometer
012,689 km
PRND321
AVG FUEL
12.6 L/100km
L150R182

Instrument panel display

Note:

- The audio system information is only shown if the radio / CD is the original factory fitted item.
- If a warning message is active, the radio / CD information is not displayed, as the warning messages have priority.

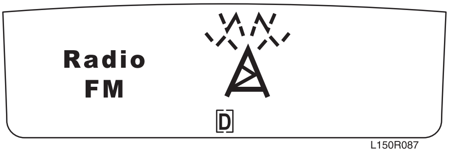

FM1
107.5
Odometer
000,121km
D
L150R089

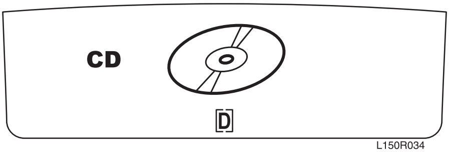
If the radio / CD is on when the ignition is turned on, the display shows the trip computer information with the radio / CD information on the left side.

Note: If the radio / CD is turned off, no radio / CD information is shown on the display.

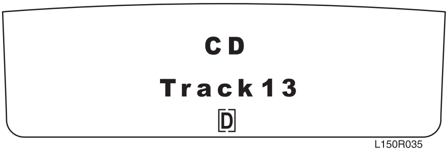
CLOCK, RADIO, CD AND DVD (if fitted) cont.

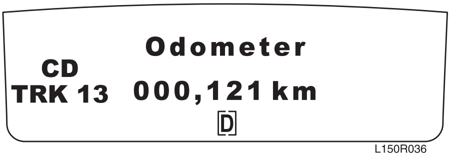
If the radio / CD is turned from off to on while the ignition is on, the display shows the main animated radio or CD screen (depending on the music source selected). After 2 seconds the display reverts to the trip computer screen with the radio / CD information on the left side of the display.


Radio
FM
D
L150R087

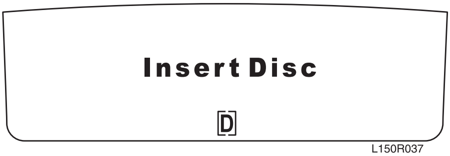

CD
D
L150R034

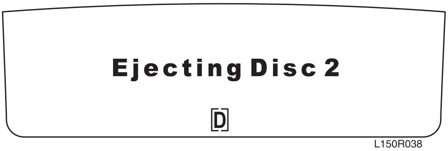
On selection of a radio station, radio band, CD, CD track or function, the display shows the selection in the centre of the screen. After 2 seconds the display reverts to the trip computer screen with the radio / CD information on the left side of the display.


CD
Track 13
D
L150R035

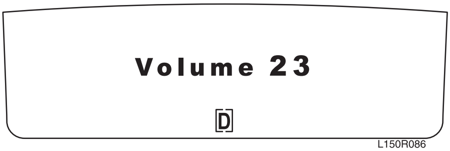

Odometer
CD
TRK 13
000,121 km
D
L150R036

When using the CD changer, the display provides message screens informing the driver when to insert or remove discs. It also informs the driver of current functions being performed by the unit such as 'Ejecting Disc 2' or 'Please Wait...'. The display remains until the action is completed or the driver presses the trip computer MODE button. The display reverts to the last trip computer display.


Insert Disc
D
L150R037


Ejecting Disc 2
D
L150R038

When changing the audio system settings such as Volume, Bass, Treble, Balance, Fader and Boost, the driver can also use the trip computer switch buttons to select and change the settings. Once the adjustment has been made, the display is shown for 2 seconds before reverting to the original trip computer display.


Volume 23
D
L150R086

CLOCK, RADIO, CD AND DVD (if fitted) cont.

Setting the clock and calendar

When the radio is on, the time can be set as follows:

1. Press the **TIME** button for more than 2 seconds. The dashboard mounted display will show the time and date. The hours will flash.
2. Adjust the hours using the ⏮ **SEEK TRACK** and **SEEK TRACK** ⏭ buttons.
3. To adjust the minutes press the **TIME** button again. Adjust the minutes using the ⏮ **SEEK TRACK** and **SEEK TRACK** ⏭ buttons.
4. Repeat this procedure until the year, month and date are set.

Note: The radio automatically exits this mode if no adjustments are made for 8 seconds.

Setting the clock and calender when the audio system head unit is removed:

There is a special clock and calender setting mode available using the climate control system controller when the audio system head unit is not present.

1. Turn the ignition on.
2. Press and hold both the AUTO and the driver's side temperature ▲ buttons on the controller for more than 4 seconds. The hours setting on the display will flash.
3. Adjust the hours using the driver’s side temperature ▼ and ▲ buttons.
4. To adjust the minutes press the AUTO button again. Adjust the minutes using the driver’s side temperature ▼ and ▲ buttons.
5. Repeat this procedure until the year, month and day is set.

Audio System Personal Identification Number (PIN)

The radio has an electronically coded security system. The system recognises the vehicle into which the radio has been installed. If the radio is kept in the vehicle (even if the battery or the radio has been removed and reinstalled) the PIN is not required.

If, for some reason, the electronic link between the vehicle and the radio is disrupted, the radio will prompt you for a 4-digit PIN to be entered. Refer to ‘Security Release Procedure’ in the Audio System Handbook in the glovebox for more details.

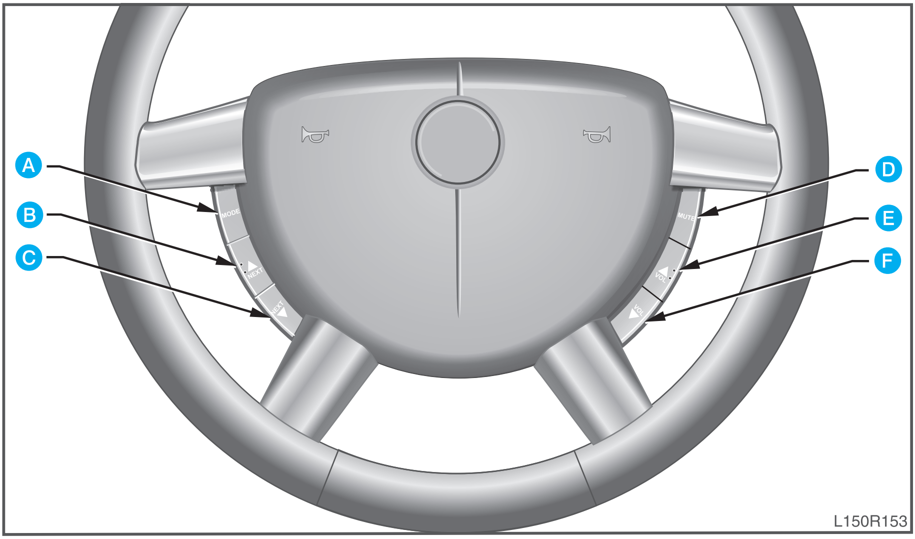
The PIN is supplied on the Security Card. Refer to Chapter 2. As the PIN is the only means of enabling operation of the radio, we recommend the Security Card be placed in your wallet or personal card holder. Do not leave it in the glovebox of the vehicle. Keep a copy of the PIN with other important documents.

If the Security Card is lost and the PIN is not recorded elsewhere, the PIN can be requested from your Holden Dealer, after supplying the proof of ownership. There may be a nominal charge for this service.

Note: For added security, a small red light on the radio blinks while the ignition is off.

REMOTE RADIO / CD CONTROLS

Remote controls for the radio / CD are provided by buttons located on the left and right side of the steering wheel centre pad.



Left side

Press the MODE button □ to alternate between different audio modes: radio FM1, radio FM2, radio AM, CD and DVD (if fitted).

When the radio is playing:

Favourite radio stations can be assigned a 'preset' number so that they can be quickly recalled (see the Audio System Handbook in the glovebox).

Press the NEXT ▲ button □ to switch the radio up to the next preset station. For example, radio station number 3 is playing, press the NEXT ▲ button □, radio station number 4 starts playing. Likewise, the NEXT ▼ button □ switches the radio down a preset station.

When a CD is playing:

Tap the NEXT ▲ button □ or ▼ button □ to switch between CD tracks.

CD Changer only – Press and hold the NEXT ▲ button □ or ▼ button □ to switch between the different CDs.

Right side

Press the VOL ▲ button □ to turn the volume up.

Press the VOL ▼ button □ to turn the volume down.

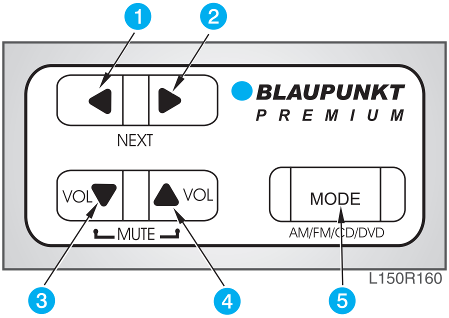
Note: Either hold down the button for as long as required, or tap the button, for small changes in volume.

Press the MUTE button □ to switch the volume down by 20 decibels. Sound is only heard if the radio was very loud before muting.

Press the MUTE button □ or the VOL ▲ button □ to un-MUTE the radio.

CAPRICE AUDIO ROOF BUTTONS AND HEADPHONES

Audio roof buttons



L150R160

MODE button *P***:** Pressing the **MODE** button *P* alternates between different audio modes: radio FM1, radio FM2, radio AM, CD and DVD.

When the radio is playing:

Favourite radio stations can be assigned a 'preset' number so that they can be quickly recalled. Refer to the Audio System Handbook in glovebox.

NEXT ◀ *K* **▶** *L* **buttons:** When the radio is playing, press the **NEXT ▶** button *L* to switch the radio up to the next preset station. For example, radio station number 3 is playing; press the **NEXT ▶** button *L*; radio station number 4 starts playing. Likewise, **NEXT ◀** button *K* switches the radio down a preset station.

When a CD is playing:

Press and hold the **NEXT ◀** *K* or **▶** *L* button to switch between different CDs. Tap the **NEXT ◀** or **▶** button to switch between CD tracks.

VOLUME ▼ *N* **▲** *O* **buttons:** The **VOL ▼** *N* **▲** *O* buttons turn the volume up or down. **Note:** Either hold down the button for as long as required, or tap the button, for small changes in volume.

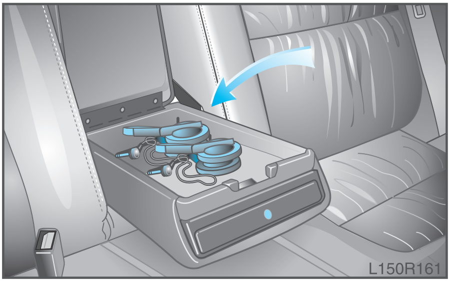
MUTE: Press the **VOL ▲** *O* and **VOL ▼** *N* buttons together to mute all speakers by 20 decibels. Press the **VOL ▲** button *O* or both the **VOL ▼** *N* **▲** *O* buttons together to un-mute the speakers. Switching the ignition off and on also un-mutes the speakers.

Headphones

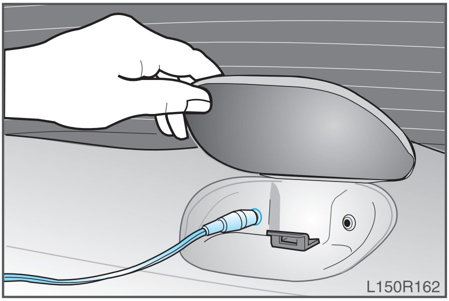
The headphones are stored in a compartment inside the rear seat armrest. To use the headphones, plug them into the headphone jacks, located either side of the centre child restraint anchor, behind the rear seat, as illustrated. Flip up the cover to access the jacks.

Rear speakers automatically turn off when headphones are plugged in.

Some buttons operate differently when the headphones are plugged in. Refer to the Audio System Handbook for more detail. For example, when the headphones are plugged in, pressing the **VOL ▲** *O* and **VOL ▼** *N* rear roof buttons together mutes and un-mutes the front speakers only, as the rear speakers are already be turned off.



L150R161



L150R162

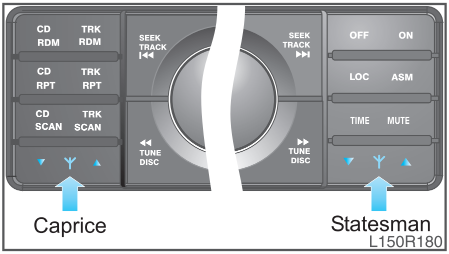
ANTENNA

The best reception is always gained when the antenna is fully extended. However, to guard against breaking or bending the antenna, it may need to be retracted (clearance for overhanging trees or car wash for example).

Antenna height adjustment

When the radio is switched on, the antenna extends to the height setting used prior to switching the radio off. Adjust the height by pressing the antenna button on the radio, as illustrated.

If you need to lower the antenna for clearance purposes while driving, press the down arrow to lower the antenna. When clear of the obstacle, fully extend the antenna to gain the best radio reception.



Personal identity keys: When the key is inserted in the ignition and turned on, the system identifies the key and sets the antenna height to the last adjustment used for that key. Refer to Chapter 2.

Cleaning: Regularly clean the mast antenna shaft with a felt cloth, water and a mild detergent. This not only helps the mast antenna retract, but also aids radio reception.

Damage: If the mast antenna becomes bent or is broken, have a replacement antenna fitted by your Holden Dealer as the motor and / or drive mechanism can become damaged by trying to operate a bent or broken antenna. Replacement of a bent or broken mast antenna may not be covered by warranty.

Diversity antenna

In addition to the normal external antenna, the vehicle is fitted with a diversity antenna. The diversity antenna improves FM reception under multipath conditions and is an integral part of the rear window assembly. The thin conductors that form the antenna are laid on the inside of the rear window glass in the same manner as the heated rear window elements.

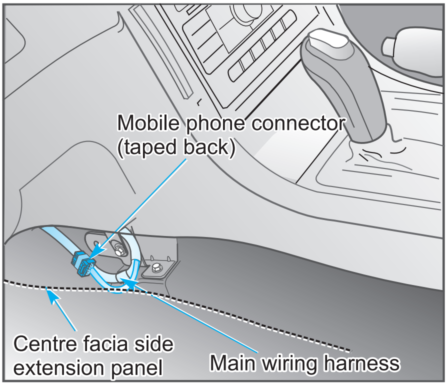
The radio receives signals from both the diversity antenna system and the conventional fender mounted mast antenna. Internal circuitry within the radio decides which antenna is located in the cleaner signal area. It then uses that antenna for radio reception. When the vehicle is in motion the radio constantly monitors both antennas and swaps between them in order to maintain the best possible radio reception.

Note:

- Due to the internal circuitry of the radio receiver, if the fender-mounted mast antenna is retracted, faulty or disconnected, the radio may not use the diversity antenna system for the radio reception.
- The diversity antenna elements in the rear window are similar to those used in the demister pattern and a similar amount of care must be taken when cleaning the inside of the rear window.
- Other antennas, such as mobile phone antennas, should not be placed directly over the diversity antenna pattern to avoid interference or blocking of the signal from the diversity antenna.
- Window tinting is not recommended on rear windows with a diversity antenna fitted. Metallic based tint material significantly reduces radio reception in both the AM and FM bands, and dye-based tint material reduces reception in the FM band.
- If the signal at both antennas is of poor quality an improvement cannot be expected.

MOBILE PHONE CONNECTION

Mobile phone connection



L150R181

A mobile telephone connection is provided for the integration of a mobile cell phone to the vehicle's audio system. A six-pin connector is taped under the centre console, on the passenger's side, as illustrated. Refer to Audio System Handbook in the vehicle's glovebox for further details.

If a mobile phone hands-free kit (with suitable features such as a mute line and wiring for separate speaker) has been connected to it, the sound of the radio / CD is muted when the phone rings and the voice of the caller is heard through the vehicle's speakers. When the call ends the radio returns to the previous mode.

During a call, 'VOICE IN' is shown on the display. If the radio system is off, it turns on for the telephone call if the vehicle's accessories or ignition is already switched on.

If a call is in progress when the accessories is turned off, the radio remains turned on in Telephone mode until the phone call is completed.

Volume, Bass, Treble, Fader and Balance can all be adjusted in the Telephone mode without affecting these settings in other modes (such as Radio, CD or DVD).

Note:

- When this feature is used for the first time, the volume may need to be adjusted on the phone as well as the radio. This should be done while a call is in progress. First, adjust the phone's volume to a medium level using the volume control on the phone itself, then adjust the radio's volume to a comfortable listening level. The radio's volume may now be adjusted as required to compensate for variations in the mobile phone signal quality or changes in the background noise within the vehicle, for example, if the window is wound down.
- If the call sounds unusually distorted, the volume setting on the phone itself may need to be adjusted until the sound quality is improved.

Contact your Holden Dealer, authorised Blaupunkt agent or mobile phone installer for further information.

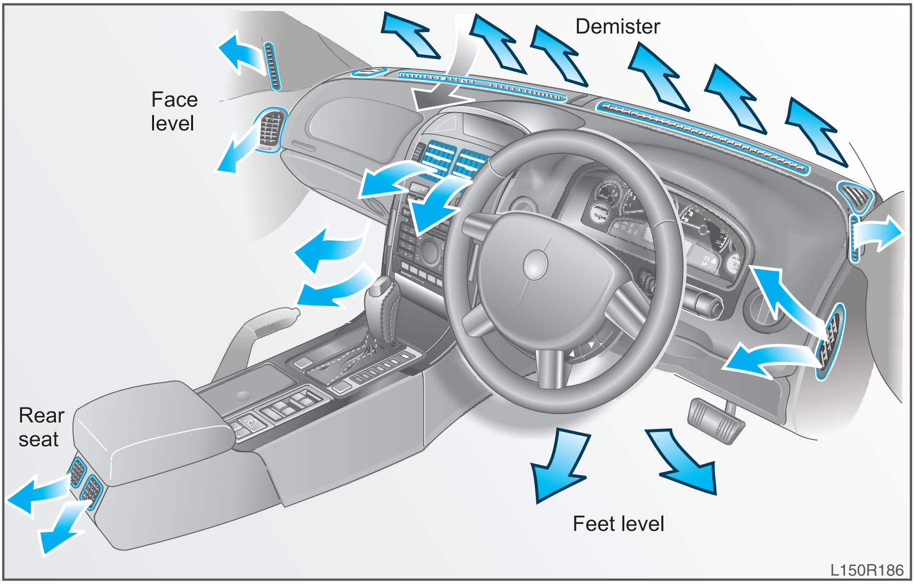
Note: All of the above functions can be individually set for each of the vehicle's personal identity keys.

VENTILATION SYSTEM

The vehicle features a flow-through ventilation system for comfort. Under reasonable conditions, it should not be necessary to open the windows at any time. Outside air (except when recirculate is selected) is drawn into the vehicle through the opening between the bonnet and the windscreen. Do not allow this grille to become clogged with debris, such as leaves or snow. Any leaves should be removed each time the vehicle is washed (recommended weekly).

Vents

The air may be directed to different types of vents.

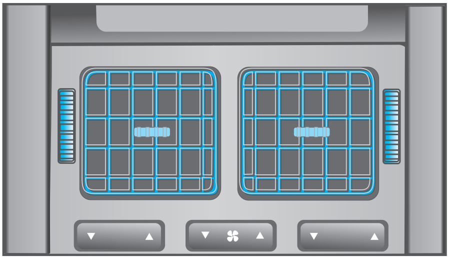


L150R186

The face-level and rear seat vents have adjustable vanes which may be swivelled up or down and left or right to allow directional control of air flow.

These vents have shut-off doors which can also be used to adjust the air volume to suit individual comfort. For example, air flow at the centre vents can be reduced to enhance air flow at the rear seat vents.

The feet-level and demister vents are fixed, as these direct air to the windscreen, feet and side windows in the best possible way.

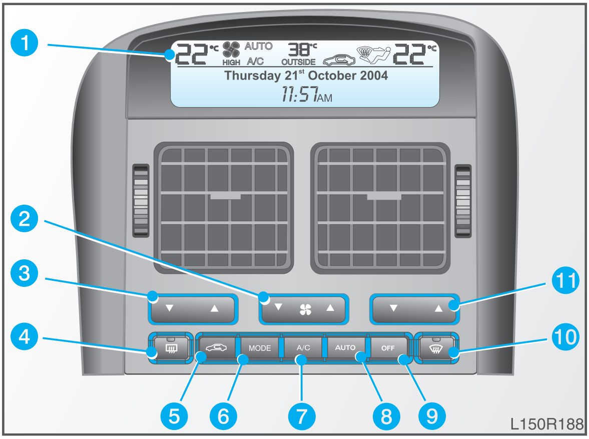


L150R187

CLIMATE CONTROL

The climate control panel is located in the centre of the dashboard. It is designed to maintain the interior of the vehicle at the desired temperature. The right and left sides of the vehicle can be maintained at different temperatures.

The control panel is directly below the centre air vents and the display *K* is directly above the centre air vents, as illustrated. The upper portion of the display provides information on the climate control settings, while the lower portion provides information on the audio system. Refer to the Audio System Handbook in the glovebox for information relating to the audio system.


1
2
3
4
5
6
7
8
9
10
11
22°C
HIGH
AUTO
A/C
38°C
OUTSIDE
22°C
Thursday 21st October 2004
11:57AM
MODE
A/C
AUTO
OFF
L150R188

CONTROLS

No.	Function	No.	Function
K	Display	*R*	Air conditioner on / off
L	Fan speed adjust	*S*	Automatic operation select
N	Temperature control – passenger	*T*	Climate control off
O	Rear window demist	*U*	Front window demist
P	Recirculation select	*V*	Temperature control – driver
Q	Mode select		

CLIMATE CONTROL cont.

Automatic operation

1. Start the engine.
2. Press the **AUTO** button S if the AUTO icon is not already displayed.
3. Use the red ▲ (warmer) or blue ▼ (cooler) button to adjust the temperature setting. Try an initial setting between 22°C and 24°C.

   Note: Use the left set of arrows N to select the desired temperature for the passenger and the right set of arrows V to select the temperature for the driver.
4. Allow the system to stabilise for a few minutes.
5. Adjust the angle of the air vents to your personal requirements. For example, with the air vents pointing directly at your body or face for initial cooling and then pointed away for a more general effect once you have cooled down.

   Note: The setting does not change between the ignition being turned off or on (except if extreme hot or cold is selected). Therefore, you need only change the setting when you wish to alter the comfort level.

Note: The system must be on (display K showing) to make any adjustments.

Dual zone linking

Dual zone climate control allows the left and right sides to be set to different temperatures or to be linked to operate at the same temperature, that is, the passenger's side temperature setting mirrors whatever the driver's side temperature is set to.

To link:

Press and hold the **AUTO** button S for at least 2 seconds. Both sides of the temperature display K blink to indicate linking has occured.

Note: Linking automatically occurs if the passenger's and driver's sides are set to the same temperature when the ignition is turned on.

To unlink:

Press either of the passenger's temperature control button N.

Temperature control buttons

Use the temperature control buttons N V to set the desired temperature. Press the red ▲ (warmer) or blue ▼ (cooler) button to adjust the temperature setting between 17°C and 30°C (a setting between 22°C and 24°C is recommended).

Rear window demist button

Press the rear window demist button O to turn the demister on. Press the button again to turn the demister off.

The light in the button illuminates when demist is selected.

To avoid unnecessary electrical consumption, the demister switches off automatically.

Outside air temperature

The air temperature outside the vehicle displays continually in the centre of the display K.

CLIMATE CONTROL cont.

Fan button

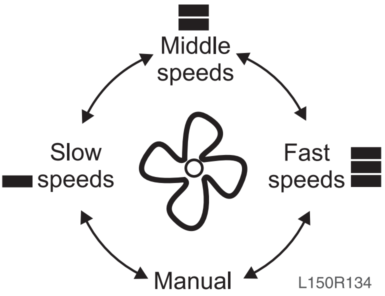
Press ▼ or ▲ on the fan button *L* to increase or decrease the fan speed.

Five manual fan speeds are available. When the fan is adjusted manually, the displayed fan blade graphics fill according to the fan speed, for speeds 1 to 4. The HIGH icon displays with the fan graphic on speed setting 5.

When the **AUTO** button *S* is pressed, all functions, including the fan speed, go into auto mode. When the fan is operating automatically, the fan blade graphics are clear.

In auto mode, three sets of fan speeds are available for individual preference. When AUTO is first selected, the fan uses the middle set of fan speeds. Press the fan ▼ or ▲ button to change to the faster or slower set of fan speeds. Bar graph icons appear briefly next to the FAN text when the button is pushed, representing the fan speed range selected.

If the Manual position is selected the fan leaves auto mode for manual mode.



Note: When the engine is not running, the fan speed is limited to conserve the battery.

Recirculation button

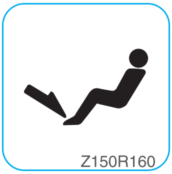
The recirculation button *P* switches air intake to recirculated air. The recirculation symbol is shown on the display *K* when recirculation is selected.

Note:

- Recirculate reuses interior air and is therefore not recommended for long periods of time.
- The recirculate position should not be used if occupants are smoking.
- Recirculation automatically switches off after 40 minutes, or it can be manually turned off by pressing the switch again.

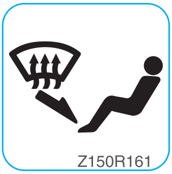
Mode button

Tap the **MODE** button *O* to switch between floor-level, front demist / floor-level, bi-level and face-level modes.



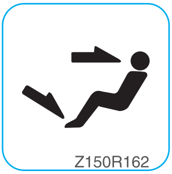
Floor

Air is directed to the floor vents.



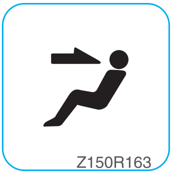
Demist and floor (blend)

Air is directed to the floor and front window demist outlets.



Bi-level

Cooler air is directed to the face-level and rear vents and warmer air is directed to the front floor vents.



Face

Air is directed to the face-level and rear vents.

CLIMATE CONTROL cont.

A/C button

Press the **A/C** button *R* to switch the air conditioning on. Press the button again to turn the air conditioning off.

To conserve fuel, you may wish to switch the air conditioning off in cold weather. The climate control maintains automatic control of all other functions but does not turn on the air conditioning, even if cabin temperature gets too high.

When A/C is switched on, the air conditioning operates as required, removing moisture and heat from the air.

Air conditioning should be switched on for at least 5 to 10 minutes once every 2 weeks to lubricate the A/C system seals, even in winter.

Auto button

Press the **AUTO** button *S* to switch the system to full automatic control (the AUTO icon is shown on the display *K*).

Manual override of any controls can impede the system maintaining the set temperature. It is designed to operate with a minimum of manual adjustment. The AUTO icon on the display extinguishes when not in full auto mode.

Allow the system to stabilise before changing comfort settings.

Off button

Press the **OFF** button *T* to switch the system off and on.

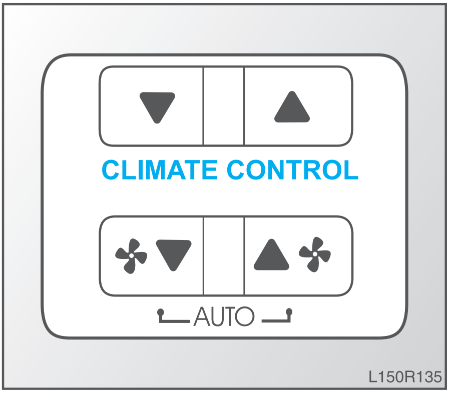
Front window demist button

Climate control cannot determine demist requirements. Therefore, press the front window demist button *U* for demisting the front and side windows. The system changes the outlets to demist and switches on the air conditioning.

The light in the button illuminates and the front window demist icon is shown on the display *K* when demist is selected.

Press the button again to turn the demister off.

CLIMATE CONTROL cont.



Roof controls (Caprice)

Buttons are provided in the rear, roof-mounted console for the operation of the climate control by the rear seat passengers.

- The buttons above the words 'CLIMATE CONTROL' increase or decrease the temperature.
- The buttons below the words 'CLIMATE CONTROL' increase or decrease the fan speed.

  Press both fan buttons simultaneously to switch the climate control to AUTO. Holding both buttons for more than 2 seconds links the climate control.

Note:

- If the climate control is linked, the changes made from the roof control alters the air issuing from the front and rear vents.
- If the climate control is not linked, the changes made from the roof control alters the air issuing from the rear vents and the driver’s vents.

CLIMATE CONTROL NOTES

Ignition keys

The vehicle is fitted with 'priority key locking' system. Refer to Chapter 2, Locks. The system has the ability to remember individual adjustments for two different keys. When the key is inserted in the ignition and the ignition is turned On, the system identifies the key and sets the climate control to the last adjustments used for that key.

Adjusting the temperature

When the climate control system has stabilised and you wish to adjust the setting, it is recommended that the adjustment be made one tap at a time (each tap is 1°C) until the desired comfort level is reached. Comfort settings depend on clothing, acclimatisation and the angle at which you have directed the vents.

The system can be set anywhere between 17°C (coolest) and 30°C (warmest). Pressing the red arrow when 30°C is already showing causes the display to show 'H' (hottest); pressing the blue arrow when 17°C is already showing causes the display to show 'C' (coolest).

What the system does

In automatic operation the system responds quickly to cooling and heating requirements. It is not necessary to set a cooler or hotter temperature than required to ensure fast cooling or heating.

The system should be left on automatic operation, as it can then:

- Turn air conditioning on and off.
- Vary the temperature of the air entering the cabin.
- Recirculate interior air or take air in from outside the vehicle.
- Vary the fan speed.
- Select the vents through which the air is delivered.

For example, on a cold morning, air is directed to the windscreen. Then, as the engine warms up, warm air is directed to the foot vents. Later still, the system changes to Bi-level, the fan slows down and changes to face-level and foot vents.

You may need to manually adjust the angle of the vents at various times. For instance, to direct cool air onto your body on hot days or past your body on mild days.

Quick cool down

To aid the climate control when first entering the vehicle on a hot day, open the windows to allow the hot air to escape. After a minute or two, close the windows to allow the system to work more effectively.

Engine idling

If the vehicle is stopped for long periods in hot weather with the engine running and the air conditioner operating, select Neutral or Park.

Cigarette smoke

If occupants are smoking, it is recommended that the recirculate position not be used.

CLIMATE CONTROL NOTES cont.

Engine performance / fuel economy

The climate control’s air conditioner uses power from the vehicle's engine. As a result, there is a small decrease in engine power and a slight increase in fuel consumption when the air conditioner is in use. When driving at high speeds, the air conditioning compressor may switch off momentarily so that full engine power is available.

The system is protected by switches that guard against abnormal loads and loss of refrigerant. The compressor may switch off permanently. Have the system checked by a Holden Dealer if this occurs.

Regular running

It is important that once every 2 weeks, with the engine running, the climate control’s air conditioner is switched on for 5 to 10 minutes (even in winter) to lubricate the air conditioner system seals.

Hissing

Occasionally a slight hissing sound may be heard for a short time when the air conditioner switches off and pressure in the system equalises. This is normal.

Water

Water condensation forms when the climate control’s air conditioner is operating, this condensation is discharged underneath the vehicle. Therefore, traces of clean, clear water on the ground underneath the vehicle are normal under these circumstances.

Unsealed roads (prevention of dust entry)

When following another vehicle on unsealed roads (and the dust is airborne), it is recommended that recirculation be selected. However, if the dust is not airborne it is recommended that the setting be on outside air (recirculation off) and that the fan be on a high speed. This builds up positive air pressure to help prevent dust entry. Ensure in both cases that all windows are closed.

Note: Recirculate mode reuses interior air and is therefore not recommended for long periods of time.

Something wrong?

The **X** symbol illuminates on the display when there is a fault in the system. Contact your Holden Dealer, who has the necessary equipment to diagnose the system.

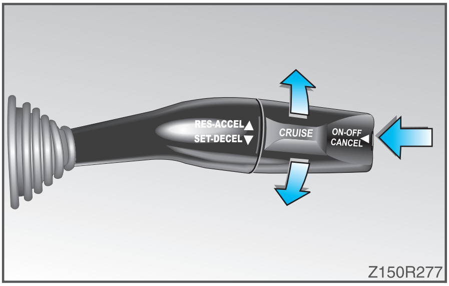
Sensors

The climate control uses three different sensors to maintain the desired temperature.

- The sunlight sensor, is a small rectangle fixed to the top-centre of the dashboard. Do not cover the sensor or place metal objects close by, as this may block the input. Occasionally clean the sensor.
- The outside temperature sensor is located in front of the condenser and relies on air moving across the sensor. You may notice a difference between the temperature shown on the climate control display and the temperature shown on roadside temperature displays. This is due to the vehicle's sensor being closer to the condenser and road, which radiates heat.
- The in-car sensor, which is located in the dashboard. Refer to page 1-3. This measures the temperature inside the vehicle. It is important not to cover the sensor (for example, with stickers).

CRUISE CONTROL

The cruise control maintains the vehicle's speed without you having your foot on the accelerator pedal.



For safety reasons, the cruise control cannot be activated until the foot brake has been operated at least once after the ignition has been turned on.

The cruise control lever is located on the right side of the steering column, as illustrated.

The ON-OFF / CANCEL switch is located at the end of the lever and is activated by pushing in towards the direction of the steering column.

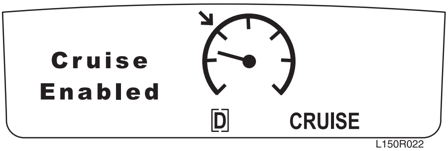
The outer half of the lever rotates up to the RES-ACCEL position or down to the SET-DECEL position.

The SET-DECEL position is used to set initial speed and to decrease speed.

The RES-ACCEL position is used to resume 'memory' speed and to increase speed.

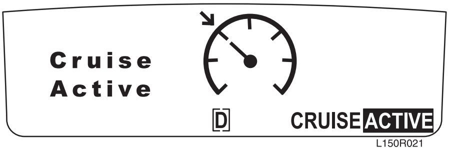
TO SET INITIAL SPEED

1. Turn on the ignition.
2. Press the ON-OFF / CANCEL switch. The 'Cruise Enabled' animated symbol and small CRUISE icon displays on the instrument panel. After 2 seconds, the display reverts to the CRUISE icon indicating that the power is on.



3. Press the accelerator pedal until travelling at your desired speed (must be above 40 km/h) and then rotate the lever down to the SET-DECEL position.

   The 'Cruise Active' animated symbol and CRUISE ACTIVE icon now display on the instrument panel. Release both the accelerator pedal and the lever, as the cruise control is now maintaining the speed.



4. After 2 seconds, the display reverts to the CRUISE ACTIVE icon indicating that the cruise control is now engaged.

TO ADJUST YOUR SET SPEED

You may either:

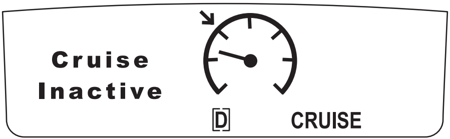
- Rotate the lever down to the SET-DECEL position until the vehicle slows down to the desired speed, then release.
- Rotate the lever up to the RES-ACCEL position until the vehicle accelerates up to the desired speed, then release.

Minor changes in speed (approximately 1 km/h) can be achieved by momentarily rotating the lever; up or down. When reducing speed, remember that the cruise control is not designed to operate under 40 km/h.

CRUISE CONTROL cont.

TO PAUSE THE CRUISE CONTROL

Press the brake pedal or press the ON-OFF / CANCEL switch once. This deactivates the cruise control. The 'Cruise Inactive' animated symbol displays and the ACTIVE icon turns off, but cruise control retains the speed in its memory. To regain the memory speed, momentarily rotate the lever to the RES-ACCEL position, provided you are travelling over 40 km/h. Holding the lever in the RES-ACCEL position for longer than 1 second causes the vehicle to accelerate.



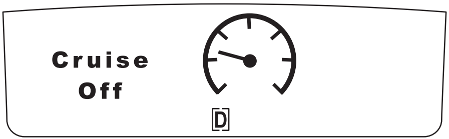
L150R023

TO TURN THE CRUISE CONTROL OFF

Press the ON-OFF / CANCEL switch twice.

The 'Cruise Off' animated symbol displays and the CRUISE icon turns off.

Pressing the ON-OFF / CANCEL switch once pauses the cruise control but keeps the system ready and the speed in memory.



L150R024

A second press turns the system off completely and wipes the speed memory clear.

A third press turns the system back on to ready, without any speed memory.

In addition, turning off the ignition completely turns off cruise control and wipes the speed memory clear.

WARNING:

- Do not use the cruise control when road or driving conditions require varying speeds. A constant speed isn't practical in heavy or varying traffic, or on winding, slippery or rough roads.
- Remember that when both the CRUISE and the ACTIVE symbols are displayed, the cruise control is maintaining the vehicle’s speed. Taking your foot off the accelerator pedal does not reduce the speed. To deactivate the cruise control, either press the brake pedal or push the ON-OFF / CANCEL switch.
- The cruise control does not apply the vehicle's brakes. Therefore, the vehicle may gain speed when going down steep hills.
- When climbing steep hills (particularly when towing) it is possible for the vehicle to lose speed. You may need to switch off the cruise control and use the accelerator pedal.
- The cruise control is cancelled if the traction control system becomes active, indicated by the 'Low Traction' animated warning on the instrument panel display.

Note: If cruise control is maintaining vehicle speed, the transmission overrides Power / Normal mode selection and operates in cruise mode, providing optimum driveability. Cruise mode is neither a Power or Normal mode pattern and the PWR symbol switches off when cruise control is maintaining vehicle speed.

PARKING AIDS

Depending on the luxury level of the vehicle, there are two different types of parking aid systems that could be fitted:

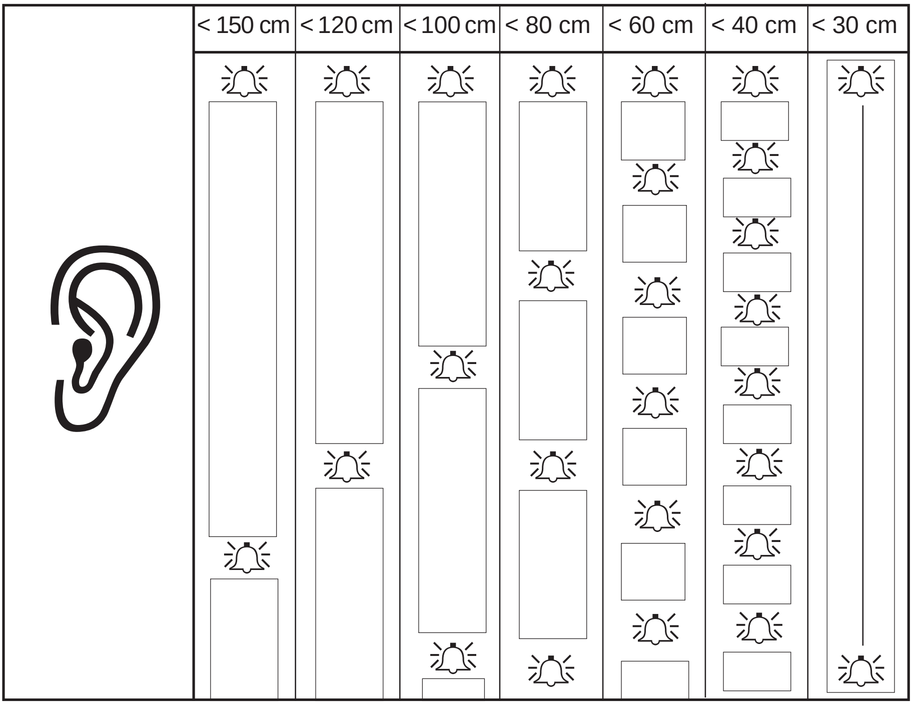
1. Rear Park Assist (RPA) – designed to help the driver reverse the vehicle by indicating (with varying tones) the distance to the nearest obstacle behind the vehicle.
2. Dual Park Assist (DPA) – designed to help the driver park the vehicle by indicating (with varying tones) the distance to the nearest obstacle in front or behind the vehicle.

Warning tones

An obstacle is indicated when it is approximately 150 cm from the bumper bar. As the distance to the obstacle reduces, the repetition rate of the warning tone increases. The tone becomes progressively faster until it reaches a continuous tone at a distance of less than 30 cm.

Hint: To assist in hearing the warning tones while parking, mute the radio / CD temporarily by pushing the MUTE button on the right side of the steering wheel.

Note: While parking, sometimes a short tone may be heard when there are no objects or obstacles visible to the driver. This can be due to such things as ground reflections, children or animals. In such cases, be especially careful.



PARKING AIDS cont.

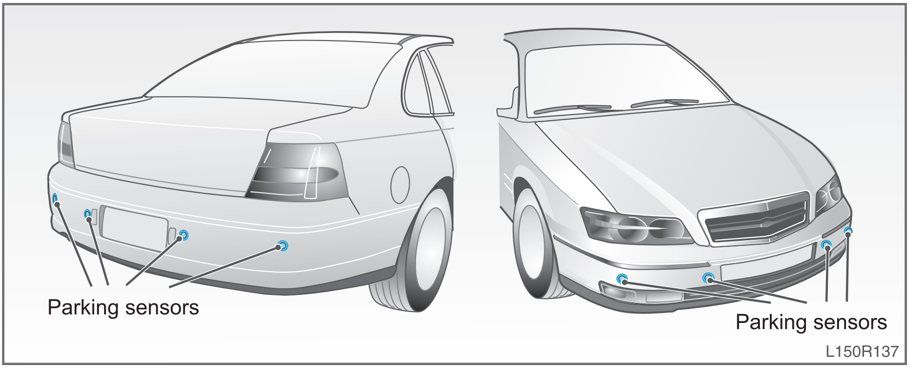
Errors

Errors are indicated to the driver as follows:

- Deep continuous warning tone while parking – acoustic error (for example, caused by excessive water or dirt on the parking sensors).
- No tones or a deep continuous warning tone after engaging reverse gear – system defective. Contact your Holden Dealer.

Safety Instructions

- When parking the vehicle, the driver must still drive in such a way as to avoid all risks to other road users. The RPA and DPA are aids only and do not release the driver from special obligations of care when parking the vehicle.
- The legal responsibility for recognising and assessing obstacles remains in the hands of the driver, despite the use of the RPA / DPA.
- A prompt warning is only possible if the driver manovoures the vehicle slowly.
- Obstacles with sharp edges, smooth surfaces, pointed or round objects (for example loading ramps) may not be recognised or recognised properly in certain circumstances as a result of their physical reflection properties.
- The driver is responsible for all collision damage caused when parking, including damage caused by unclear signals (Refer to 'Errors' above), ignoring the warning tone, driver error or incorrect signals as a result of physical conditions.
- The RPA and DPA use sensors in the bumper bars. It is the responsibility of the driver to ensure that snow, ice or sharp objects are removed from the sensors before driving away in the vehicle, to prevent any impairment to the RPA / DPA function. To avoid damaging the sensors, do not use hard or sharp objects to clean the sensors.

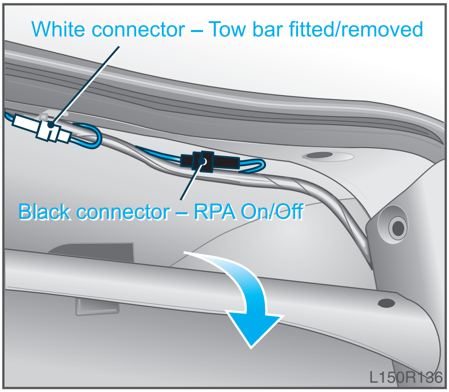


PARKING AIDS cont.

Tow bar

When a tow bar is fitted to the vehicle, the RPA requires adjustment to allow for the protrusion of the tow bar. Your Holden Dealer automatically adjusts the RPA when fitting the tow bar. If the RPA should require tow bar adjustment by the owner due to the removal or installation of a tow bar, proceed as follows:

1. Ensure that the ignition is turned off.
2. Open the boot and pull back the top of the right-hand rear compartment trim.
3. Locate the white RPA harness connector closest to the boot lid hinge:
   - Tow bar fitted – disconnect the white harness connector.
   - Tow bar removed – connect the white harness connector.
4. Install the right-hand rear compartment trim and close the boot.


White connector – Tow bar fitted/removed
Black connector – RPA On/Off
L150R136

Auto Off

The RPA / DPA rear sensors are automatically turned off when a trailer or caravan wiring is connected to the vehicle.

RPA operation (if fitted)

The RPA starts automatically when the ignition is on and reverse gear is selected. A short single tone from the rear speaker indicates that the RPA is operational.

Disabling the RPA: On some occasions you may wish to turn the RPA off to prevent hearing constant warning tones while reversing, such as when a bicycle rack is fitted to the tow bar (a bicycle may be recognised as a close object by the RPA). To turn the RPA on or off, proceed as follows:

1. Ensure that the ignition is turned off.
2. Open the boot and pull back the top of the right-hand boot compartment trim. Refer to illustration previously in ‘Tow bar’.
3. Locate the black harness connector mid way along the RPA harness.
   - RPA Off – disconnect the black harness connector.
   - RPA On – connect the black harness connector.
4. Install the right-hand rear compartment trim and close the boot.

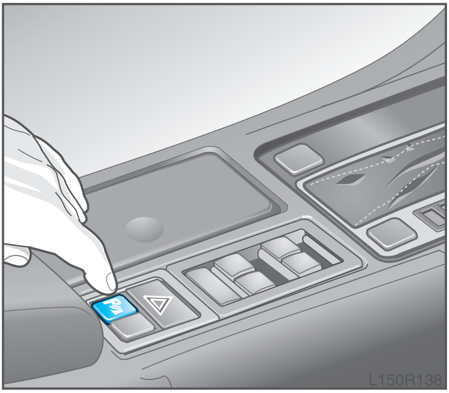
PARKING AIDS cont.

DPA operation (if fitted)

The DPA starts automatically when the ignition is on and a gear is selected. A short single tone from the speaker (front or rear) and the light illuminating in the override button indicate that the DPA is operational.

Note: The parking distance warning tones are provided from two separate speakers; one located in the front of the vehicle representing the front parking sensors and one located in the rear of the vehicle representing the rear parking sensors.

Disabling the DPA: On some occasions you may wish to turn the DPA off to prevent hearing constant warning tones while reversing, such as when a bicycle rack is fitted to the tow bar (a bicycle may be recognised as a close object by the DPA).



To turn the DPA off temporarily, press the override button in the centre console. The indicator light in the button extinguishes, indicating that the DPA is off.

To turn the DPA on again, press the override button in the centre console. The indicator light in the button illuminates, indicating that the DPA is on.

Note: The DPA automatically turns on again when the transmission gear selector is moved or the ignition is turned off then on again.

Notes on the DPA:

- The DPA is deactivated when the vehicle’s forward speed is greater than 25 km/h.
- Warning tones from the rear sensors cease when the vehicle’s reverse speed is greater than 25 km/h. Tones will again be issued when the vehicle’s reverse speed once again returns to under 25 km/h.
- The warning tones cease after 5 seconds if the object being detected is not drawing any closer. If the detected object is withdrawing, the warning tones cease immediately.

NAVIGATION SYSTEM (if fitted)

Detailed information on the operation of the in-car satellite navigation system (SATNAV) is provided by the supplement in the vehicle's glovebox.

Note: If a vehicle fitted with a SATNAV system is towed, the antenna will need to redefine the position of the vehicle, as only the previous location prior to towing is stored in the memory. This may take a few minutes to do (while the vehicle is being driven) and it will appear that the system is not functioning correctly during the update process.

CHAPTER 2

Locks

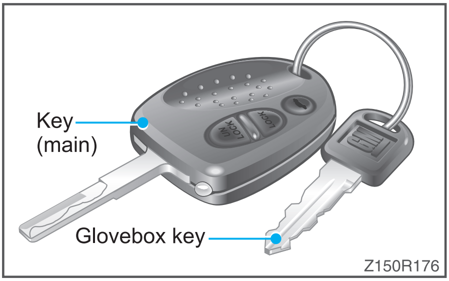
Page

2-2	Keys
2-3	Personal identity keys
2-4	Door locks
2-7	Alarm
2-9	Ignition lock
2-10	Child safety and free turning door locks
2-11	Boot lock
2-12	Bonnet lock

KEYS

Key (main)

This key operates all locks and ignition, except for the glovebox.

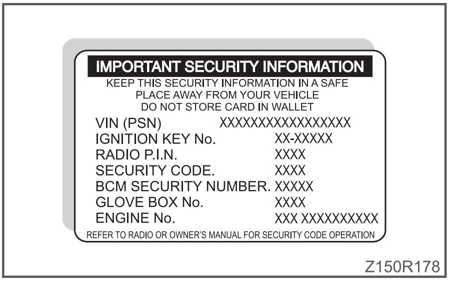


Glovebox key

The glovebox key locks and unlocks the glovebox. This key can usually be kept in the unlocked glovebox. When leaving the vehicle and master key with a car park attendant you can lock valuables in the glovebox and take the glovebox key with you.

Key numbers – security card

The security card lists various security numbers for your vehicle, including key numbers, and the radio PIN. Please keep the card in a safe place, away from your vehicle. If a key is lost, a replacement can be ordered through any Holden Dealer by quoting the key code number, security number and providing proof of ownership.



IMPORTANT SECURITY INFORMATION

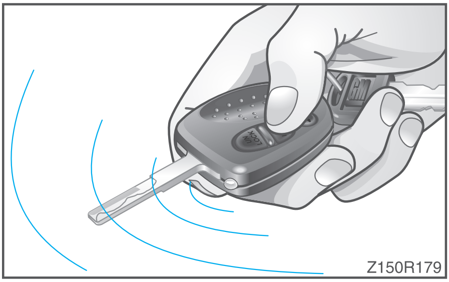
KEEP THIS SECURITY INFORMATION IN A SAFE
PLACE AWAY FROM YOUR VEHICLE
DO NOT STORE CARD IN WALLET

VIN (PSN)	XXXXXXXXXXXXXXXXX
IGNITION KEY No.	XX-XXXXX
RADIO P.I.N.	XXXX
SECURITY CODE.	XXXX
BCM SECURITY NUMBER.	XXXXX
GLOVE BOX No.	XXXX
ENGINE No.	XXX XXXXXXXXXX

REFER TO RADIO OR OWNER'S MANUAL FOR SECURITY CODE OPERATION

Pressing buttons

When pressing the key buttons, ensure that other keys on the key ring are not between the main key and the vehicle. Other keys can obscure the signal being transmitted to the vehicle. Refer to ‘Notes about the keys’ further on in this chapter.



PERSONAL IDENTITY KEYS

This system provides two different memories of electronic settings, for different keys. For instance, one driver may have a preferred radio station. Pressing the UNLOCK button on their key automatically customises the radio for that driver. However, the other driver may prefer a different station. Pressing their UNLOCK key button tunes the radio to their station.

The features remembered by each key are:

- Antenna height.
- Instrument dimmer level.
- Climate control settings.
- Automatic transmission power / normal mode selection.
- Radio settings.
- Trip computer settings.
- Time delay for automatic lights off.
- All other features personalised in the Options Menu. Refer to Chapter 1.

In addition, on higher luxury models, the following settings are also remembered:

- Driver’s seat adjustment.
- Exterior mirror position.
- Exterior mirror position when reverse gear is selected. Refer to Chapter 3.

Features revert to the last setting used for each key.

Note about additional keys: Only two different memories are available, memory one and memory two. If a third key is made, the third key becomes memory one and the other two keys become identical memory twos.

Radio: If the doors were not unlocked by pressing the UNLOCK button on the key, the radio and antenna does not change memory settings when the ignition is turned to the accessories position. The ignition must be turned to the On position for the key to be identified.

If the vehicle battery has been disconnected, some settings may be forgotten. Your adjustments will be remembered the next time you adjust the feature.

DOOR LOCKS

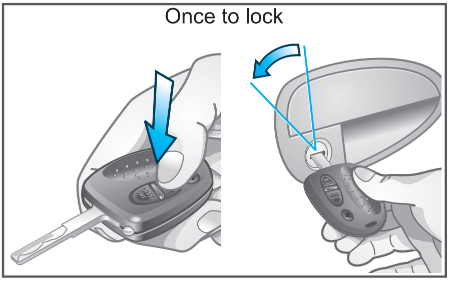
Lock

Doors are locked when the lock knob is down.

Note: The vehicle has an 'Auto lock in drive' feature which locks the doors automatically when the transmission selector is shifted out of Park. This feature can be selected from the instrument panel Options menu. Refer to ‘Options Menu’ in Chapter 1.

PREFERRED METHOD: Press the LOCK button on the key within 4 metres of the vehicle to lock all doors and set the alarm. The vehicle’s turn signals briefly flash once when the signal is received.

Note: There are two door lock indications you can choose; turn signals flashing or turn signals flashing accompanied by the sounding of the horn. Refer to ‘Options Menu’ in Chapter 1.



Z150R281

ALTERNATIVE METHOD: Insert the key in the driver's door lock and turn towards the rear of the vehicle, then turn it back to the vertical position and remove.

Note: The alarm is not set using this method.

IF STAYING IN THE VEHICLE: Press the door lock knobs down.

Note: All doors are locked at the same time by pushing down either front door lock knobs.

Deadlock

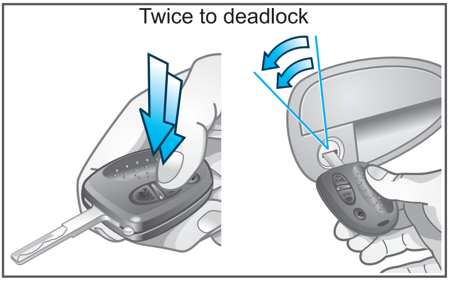
For further protection when leaving the vehicle, you can deadlock the doors. Deadlocking electronically jams all the electric locks so that no door can be opened, even if entry is gained by breaking glass.

WARNING:

Do not use deadlock if there are people in the vehicle. The doors cannot be unlocked from the inside.

To engage deadlock

PREFERRED METHOD: Press the LOCK button twice in succession. Press the LOCK button once to lock the vehicle, then press it again (within 10 seconds) to engage the deadlock. The vehicle’s turn signals give a long flash of approximately 3 seconds (and the horn chirps, if selected).



Z15OR282

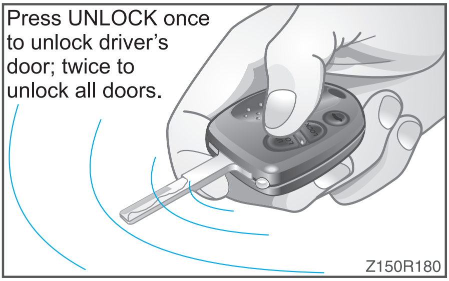
ALTERNATIVE METHOD: Insert the key in the driver door lock and turn the key twice towards the rear of the vehicle. That is, once to lock the doors, then a second time to engage the deadlock.

DOOR LOCKS cont.

To disengage deadlock

Press UNLOCK on the key (within 4 metres of the vehicle). This unlocks the doors. **Note:** Disengaging the deadlock occurs when unlocking the doors in the normal way.

Unlock


Press UNLOCK once to unlock driver's door; twice to unlock all doors.

Press the UNLOCK button on the key within 4 metres of the vehicle. The turn signals flash twice (and the horn chirps twice, if selected) and the interior light is turned on for a short time.

If UNLOCK is pressed once, the driver's door unlocks. The other doors undeadlock but remain locked. If UNLOCK is pressed a second time, or is held down for more than half a second, all the doors unlock.

If you prefer to have all doors unlock with a single press, the above two-stage unlock feature can be changed to all unlock from the instrument panel Options menu. Refer to 'Options Menu' in Chapter 1.

If the key is turned towards the front of the vehicle in the door lock cylinder to unlock the vehicle, the doors will unlock but the alarm will be set off as soon as a door is opened. If this happens turn the key in the ignition to the On position to shut off the alarm.

Turn signals

If unsure whether the vehicle is locked or deadlocked, press the LOCK button on the key. If the vehicle is already deadlocked the lights give a long flash; if the vehicle is locked the lights give a short flash but do not engage the deadlocking. If the LOCK button is pressed twice within 10 seconds, the lights give a long flash to indicate that deadlocking has occurred.

If locking has not worked

- If the lock system is overloaded as a result of repeated operation in a short time interval, the power supply is cut off for approximately 30 seconds.
- The door lock system has been designed to make the vehicle horn chirp rapidly five times if it detects a fault in the lock system when the LOCK button is pressed. Check to see that the doors have locked.

DOOR LOCKS cont.

How the door lock knobs work

- Pulling up any door lock knob unlocks all doors.
- Pushing down either of the front door lock knobs locks all doors; pushing down either of the rear door lock knobs locks only that door.
- Either rear door can be locked behind you by pressing the lock knob when the door is open, then shutting the door firmly. It is not necessary to hold the handle up when shutting. However, the lock knob of front doors cannot be pressed when either door is open.

Notes about the keys

- The key has a lithium battery inside the key head, which should last more than 5 years with normal use. A weakening battery is indicated by a progressive loss of range, which means you must be closer to the vehicle when pressing the key. When new, the key has a range of approximately 4 metres. The battery inside the key is not rechargeable. A flat key battery requires replacement of the key head.
- Tinting the vehicle windows reduces the range of the key if the tinting material has a metallic film.
- When a button on the key is pressed it sends a signal to the vehicle. The receiver of the signal is a small rectangle on the top centre of the dashboard. The receiver is also used to measure sunlight. It is therefore vital that the receiver is clean, not covered and that there are no metal objects close by, as this may block the signals.
- The LOCK button on the key will not work if the ignition is switched on or if the driver's door is open. The 🚗 button on the key will not work if you are travelling over 20 km/h.
- The key buttons may not work if parked near high radio activity, such as under TV towers (most likely in high lookout car parks).
- The key buttons will not work if the battery inside the key is flat. Try turning the key in the ignition on, then off again and remove. Try pressing LOCK on the key again. If it still does not work a replacement key may be needed from your Holden Dealer.
- If, for any reason, pressing the key buttons does not work, the doors can be locked and unlocked by turning the key in the driver's door lock.
  - Turn the key towards the rear of the vehicle (once) to lock all doors.
  - Turn the key towards the rear of the vehicle a second time to engage the deadlock.
  - Turn the key towards the front of the vehicle to unlock and disengage the deadlock. If the vehicle is fitted with an alarm system, opening the door may cause the alarm to trigger. If this happens, turn the key in the ignition to the On position to shut off the alarm.
- If the battery in the vehicle is so flat that there is not enough power to unlock doors with the UNLOCK button, you can unlock the driver’s door by forcefully turning the key towards the front of the vehicle in the door lock. The door lock knob does not pop up but pulling the handle still opens the door.

ALARM

Switching on and off

The alarm system is turned on when the LOCK button on the key is pressed, and turned off when UNLOCK is pressed. Therefore, locking the doors by pressing LOCK not only locks all the doors but (after a short delay) also sets the alarm system.

When set off

The alarm is triggered when any of the doors, bonnet or boot are opened or a ‘hot-wire’ attempted; the alarm sounds and the turn signals and dome light flash.

To turn the alarm off do one of the following:

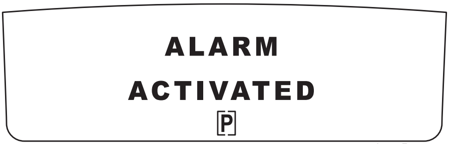
- Press UNLOCK on the key.
- Turn the ignition on.
- Allow the alarm to time out and reset itself, to guard against further break-in attempts.

Break-in

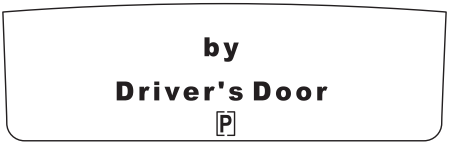
The exterior turn signals should flash twice when returning to your vehicle and pressing UNLOCK on the key.

If they flash three times, an attempted break in has occurred whilst the vehicle was armed.

To find out what set the alarm off, turn the ignition on and look at the instrument panel centre display for the 'ALARM ACTIVATED' message being shown. The 'ALARM ACTIVATED' screen is displayed first for 1 second, followed by the trigger point screens. The trigger point screens are also displayed for 1 second. If more than one trigger point has been activated the display shows each trigger point screen in sequence for 1 second, returning back to the 'ALARM ACTIVATED' screen.



L150R001



L150R002

The alarm screens are shown in a continuous cycle until the trip computer switch MODE button is pressed. The centre display then reverts to the last screen shown prior to switching the ignition off. The range of possible trigger point screens, depending upon the model, are:

- ‘by Bonnet’ – the bonnet has been opened.
- ‘by Boot’ – the boot has been opened.
- ‘by Passenger doors’ – one of the passenger doors, either front or rear, has been opened.
- ‘by Driver's door’ – the driver's door has been opened.
- ‘by Hot Wire’ – hot wiring of the vehicle was attempted (ignition on without key inserted).

ALARM cont.

Notes about the alarm:

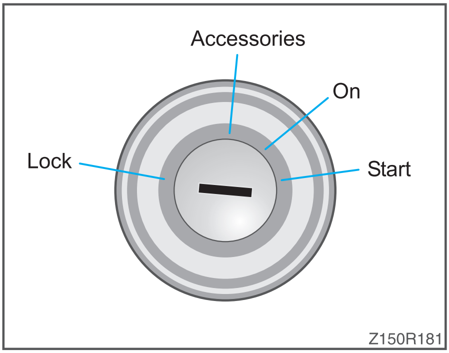
- The alarm system is turned off and on when the UNLOCK and LOCK buttons on the key are pressed. When the alarm system is switched on, turning the key in the lock and then opening the doors triggers the alarm. The alarm system thinks a break-in has occurred.

  When the alarm system is turned on, you can open the boot by pressing the 🚗 button on the key. This does not set off the alarm, but leaves the alarm system on and undisturbed.

  Closing the boot rearms the boot alarm after a short delay.
- The LOCK button on the key does not function when the ignition is turned on or the driver's door is open.
- Pressing LOCK once on the key:
  - Locks all doors.
  - Disables the engine.
  - Sets the alarm (after a short delay).
  - Switches the interior dome light off (if the switch is set to door position).
  - Withdraws the power antenna.
  - Flashes the exterior turn signals once (the horn chirps, if selected).
  - Deactivates the power windows.
- Pressing UNLOCK once on the key:
  - Unlocks the driver’s door.
  - Enables the engine for a short time (as does turning the ignition key in the ignition switch).
  - Switches off the alarm.
  - Switches on the interior dome and power windows for a short time.
  - Flashes the exterior turn signals twice (the horn chirps twice, if selected).
  - Switches on the headlights for a predetermined time (to adjust, refer to ‘Lights’ in Chapter 1).
- Pressing UNLOCK a second time (or keeping the UNLOCK button pressed for more than half a second):
  - Unlocks all the other doors.
  - Reactivates headlights again.

IGNITION LOCK

WARNING:
Do not turn the engine off while the vehicle is moving or there will not be any power assist for brakes or steering. Never remove the key while the vehicle is moving, as this will lock the steering.



Lock

When the key is in the Lock position, all accessories, electrical systems and the engine are off.

The key is inserted and removed only from the Lock position.

To help guard against theft, the vehicle's engine is automatically disabled shortly after turning the key to the Lock position, indicated by the flashing padlock icon 🔒 on the bottom left hand corner of the instrument panel.

In addition, the steering is automatically locked when the key is removed. To release the steering lock and enable the engine, re-insert the key and turn it towards the front of the vehicle.

If you have trouble turning the key to unlock the steering, turn the steering wheel slightly to the right or left while turning the key towards the front of the vehicle.

Accessories

When the key is in the Accessories position, the engine will not run, however accessories such as the radio and wipers operate.

On

When the key is in the On position, the engine is ready to start (or is already started) and all electrical systems are active.

Note: The warning lights, which are designed to illuminate at the ignition On position, indicate the systems are working. These are explained early in Chapter 1.

Do not leave the switch in the On position for a prolonged period, unless the engine is running, otherwise the battery will discharge.

Start

This is the position for starting the engine.

V6 engine: The key should only be turned to the Start position momentarily and then released, as the engine starts automatically. The key automatically returns to the On position when released.

V8 engine: The key should be released from the Start position as soon as the engine starts. It automatically returns to the On position.

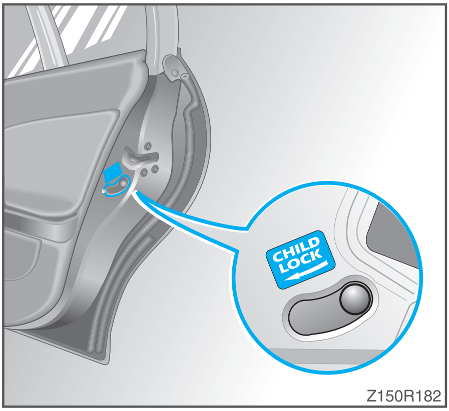
CHILD SAFETY AND FREE TURNING DOOR LOCKS

Child safety rear door locks

Child safety locking helps prevent rear doors being accidentally opened by small children in the vehicle.

The locks are provided on the rear edge of rear doors, accessible when the door is open.

When the lever is in the Lock position (to the front of the vehicle) the rear door cannot be opened from the inside. It can be opened only from the outside.



WARNING:

For safety, always check that the lock is operating correctly (after setting) by trying to open the door from inside the vehicle.

Free turning door locks

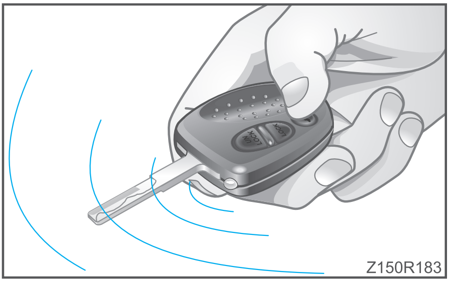
The door lock cylinder is designed to free turn if it is forcefully rotated without the correct key or if the correct key is not fully inserted. To reset, turn the lock with the correct key until its slot is vertical, remove the key and then re-insert it. If the lock still free turns, turn the key 180 degrees and repeat the operation.

Note: This feature is provided as a theft deterrent, to prevent the lock being forced open. The force required to make the key free turn reduces each time. As the force gets easier with each free turn please do not attempt to demonstrate or test this feature, and always remember to fully insert the key when locking and unlocking the doors.

If you have problems contact your Holden Dealer.

BOOT LOCK

Use one of the methods shown below to unlock the boot. After partly opening the boot lid, gas struts automatically take over to lift and hold the boot lid in the fully open position. The boot locks automatically when closed, so be careful not to leave the keys in the boot, as they will be locked in when the boot is closed.

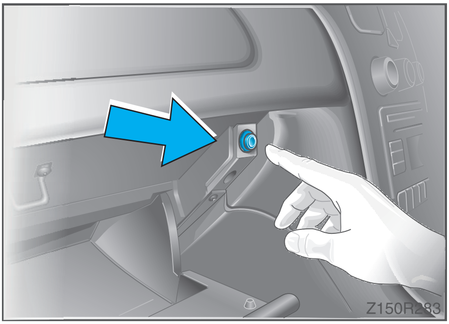

Z150R183

Key button

Unlock the boot by pressing the 🚗 button on the key.

The button on the key must be pressed for more than half a second and travelling speed must be less than 20 km/h for the signal to work. This is to stop accidental opening.

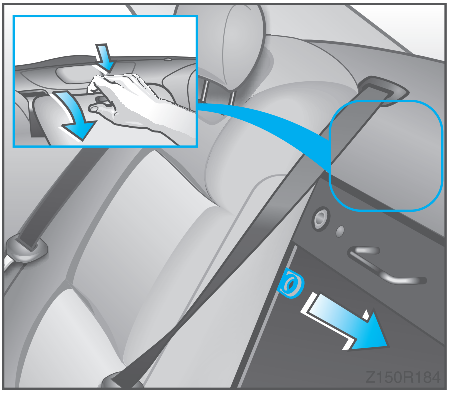
When the boot is unlocked, it can then be fully opened from outside.


Z150R283

Glovebox button

Push the button in the glovebox to unlock the boot, provided you are not travelling over 20 km/h or the alarm system is on. Then from outside, lift up the boot.

For added vehicle security, the glovebox button is disabled when all doors are locked with the LOCK button on the key, or through the door lock.

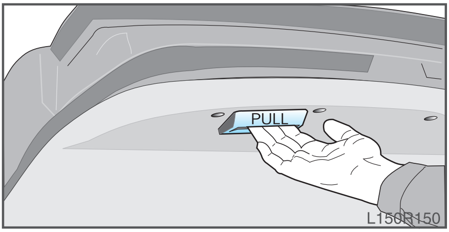

Z150R184

Emergency boot release

An emergency boot release is provided behind the centre of the rear seats. Push down the lock button at the top of the middle section and fold the middle section down. The release is at the top of the cavity. Pull the ring sideways, towards the centre of the vehicle to open the boot.

Boot lid handle (if fitted)

To help close the boot, a handle has been provided in the boot lid on some models.



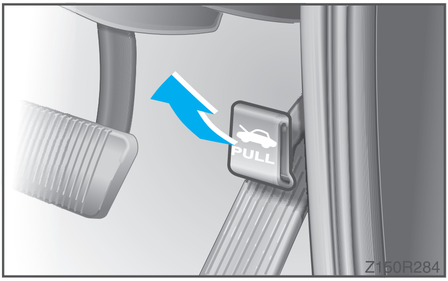
L150R150

BONNET LOCK

To open

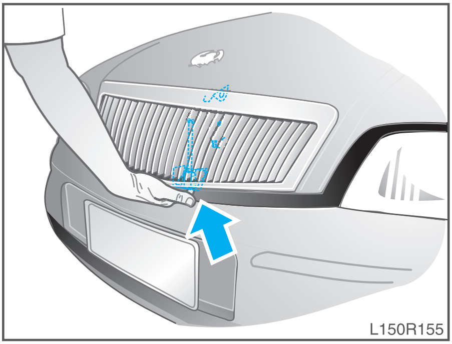
From the driver's side of the vehicle, pull the lever towards you, as illustrated.

This allows the bonnet to release but is prevented from opening by the safety catch.



To open completely, reach under the centre of the bonnet and move safety catch upwards. Hold in this position and raise the bonnet.

After you have partially lifted the bonnet, gas struts automatically take over to lift and hold the bonnet in the fully open position.



To close

Simply lower the bonnet into position and then press down on both sides simultaneously until the latch engages with an audible click.

WARNING:

- To avoid injury and / or damage to the vehicle, check each time the bonnet is closed that the contact area is unobstructed.
- If while driving you notice that the bonnet has not been properly closed, pull the vehicle over to the side of the road at the earliest possible moment and close the bonnet correctly.

CHAPTER 3

Know your vehicle

Page

3-2 Front seat
3-4 Rear seat
3-5 Seat belts
3-7 Which type of child restraint for your child?
3-8 Child restraints
3-9 Additional child restraints
3-10 Power windows
3-11 Sunroof
3-14 External mirrors
3-16 Internal mirrors
3-18 Interior lights
3-19 Accessory control and battery saver
3-20 Glovebox and centre console
3-21 Storage compartments
3-23 Ashtray, lighter, power sockets
3-24 Cup holders
3-26 Park brake, fuel filler release, footrest, assist grips

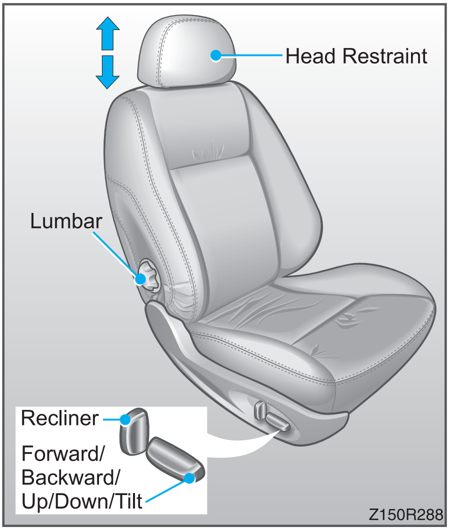
FRONT SEAT

DUAL SWITCH 8-WAY SEAT

Two switches are fitted to the side of the front seats. The front switch is used to electrically adjust the height, tilt and movement of the seat forwards and backwards. The rear switch is used to electrically adjust the angle of the back of the seat. Adjustments to lumbar support and head restraints are made manually.

Height and tilt adjust (front switch)

Move the whole of the switch up or down to move the whole of the seat up or down. The switch can also be tilted to adjust the seat angle. Tilt the switch up at the front to tilt the front of the seat up. Similarly, tilt the switch down at the rear to tilt the seat down at the rear.



Forwards / backwards (front switch)

Move the whole of the switch forwards or backwards, as required. The seat moves in the same direction as the switch.

Reclining back (rear switch)

Tilt the switch to adjust the angle of the back of the seat. The seat back moves in the same direction that the switch is tilted to.

WARNING:

To avoid reducing the effectiveness of seat belts, seats should only be semi-reclined when the vehicle is moving. The fully reclined position should only be used when the vehicle is stationary.

Lumbar support

Turn the wheel to alter support given to the lower part of your back.

Head restraint

Note: This safety feature is not intended as a headrest. It is solely for the reduction of whiplash neck movement in an accident involving your vehicle.

To raise the height of the head restraint, simply pull the head restraint up. To lower the height of the head restraint, push in the locking clip at the base of the head restraint pole and push the head restraint down. The upper edge of the head restraint should be approximately at eye level, never at neck level.

Active head restraints on front seats

In the event of a rear-end impact, the active head restraints on the front seats automatically tilt forwards and up. The head is more effectively supported by the head restraint and the risk of neck injury is reduced.

WARNING – SIDE IMPACT AIRBAGS:

Do not fit unauthorised seat covers as they may impair the deployment of the Side Impact Airbags. Do not position your body or any object (including pillows) between front seats and doors. Front seat occupants should not lean on or sleep against the door. Always sit centrally in the seat. Refer also to ‘Airbags’ in Chapter 6.

FRONT SEAT cont.

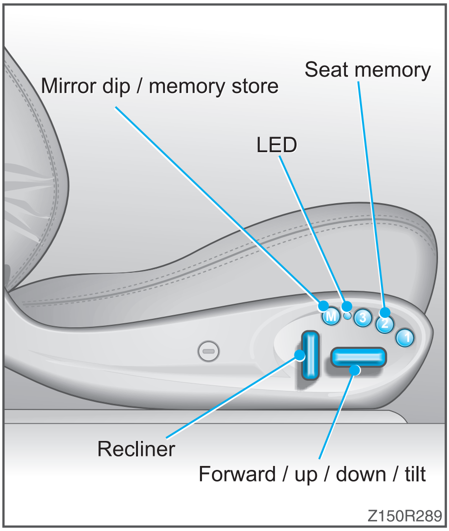
Memory buttons on driver's seat (if fitted)

The seat remembers three different settings. The memory buttons are located on the outside of the driver's seat, on the lower edge, as illustrated.

WARNING:

Before moving the seat (for example, by recalling a memory position), ensure that the path both in front of and behind the seat is clear of obstructions.

To recall a stored memory seat and mirror position, press and hold a seat memory button. Once the seat has reached the memorised position release the button. If the button is released before the seat reaches the memorised position, the seat will simply stop moving.



To change a memory position, adjust the seat with the controls shown, then adjust the mirrors including the dip position. Refer to ‘External mirror DIP’ further on in this chapter. With the ignition On and gear in Park or Neutral, press the DIP / memory store button (M), confirmed by a single chime, followed by the desired memory button (1, 2 or 3) within 5 seconds. A double chime will be heard when a new memory position is stored. Re-select the Reverse gear and wait for the mirror to be returned to the DIP view to complete the mirror save into the button memory.

Personal Identity Keys: When the UNLOCK button on the key is pressed, the system identifies the key and remembers the last settings used for that key. The seat is then automatically moved to the last position used for that key, whether that was a memory button position or whether the seat was adjusted without memorising the position. Refer also to ‘Personal Identity Keys’ in Chapter 2.

Note:

- The LED on the side of the seat is not usually seen by the driver and is used primarily for diagnosis.
- The seat will only move to the alternate Personal Identity Key setting if the UNLOCK button on the alternate key is pressed. Inserting the alternate key in the ignition will change other Personal settings (radio, climate control, for example), but not the seat, as it could be dangerous for the seat to move unintentionally. Therefore, to keep all Personal settings synchronised, press the UNLOCK button on the alternate key when using the alternate key while approaching the vehicle. Alternatively, press a memory button on the seat to move the seat.
- The mirror DIP function (refer to ‘External mirror DIP’ further on in this chapter) is linked to the seat / Personal Identity Key memories. That is, each seat memory position also stores whether the mirror was set to ‘DIP’ or not.

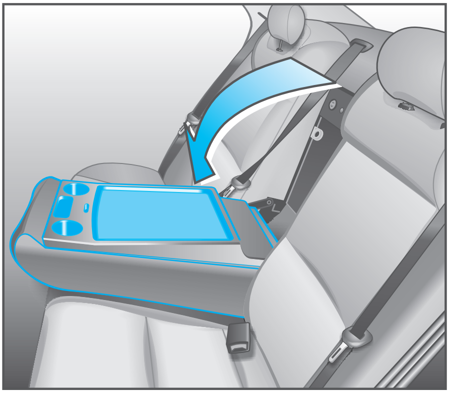
REAR SEAT

Rear seat

The middle section of the rear seat may be folded forwards to gain access to the boot area or for carrying long, awkward loads.

To fold the middle section forward, push down the lock button at the top of the middle section.

To return to the upright position, simply push back into place and check to ensure the lock button is engaged and the seat belt is free.



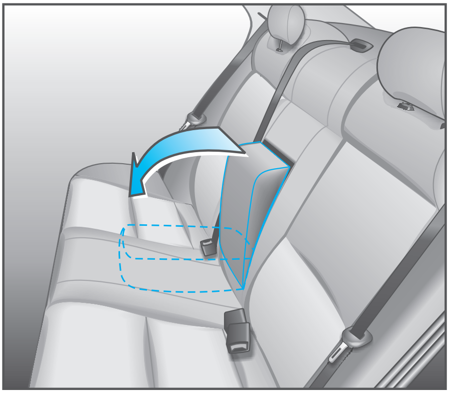
Z150L186

An armrest is provided in the middle section. To fold down the armrest, insert your hand at top of the armrest and pull down. Push the armrest up if the upright position is required.

The arm rest has a built-in storage compartment. When the armrest is folded down the cover can be lifted up after pressing the catch at the front.

Note for Caprice models: The audio system rear passenger headphones are stored in this compartment.

Note: The small toggles located under the front of the rear seat are provided for ease of seat removal. They are not designed for any other purpose.



Z150R187

Adjustable rear head restraints

Note: This safety feature is not intended as a headrest. It is solely for the reduction of whiplash neck movement in an accident involving your vehicle.

To raise the height of the head restraint, simply pull the head restraint up. To lower the height of the head restraint, push in the locking clip at the base of the head restraint pole and push the head restraint down. The upper edge of the head restraint should be approximately at eye level, never at neck level.

SEAT BELTS

Lap / sash belts

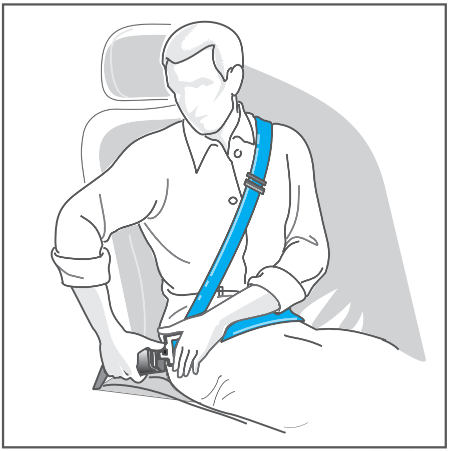
To fasten, pull the metal tongue across your body and clip it into the buckle. When the metal tongue is locked safely into place you will hear a click. After fastening, settle the belt at the hip, and run your hand under the sash from hip to shoulder to ensure that the belt fits comfortably and is free from twists. Any extra belt length retracts automatically.

Ensure the lap section of the belt is also free from twists and fits firmly across your hips.

Note: For your safety, the lap section of the seat belt should be worn as low as possible on your hips, not on your waist or abdomen.

The 'emergency-locking retractor belt' allows you to move while the vehicle is travelling normally, but locks immediately on fast braking, impact with a solid object or any quick movement by the wearer.

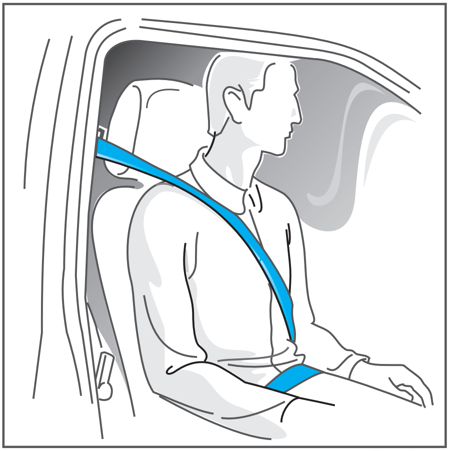
To undo the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.


Z150R188

Shoulder height adjust

The seat belt is anchored to the vehicle near your shoulder. The position of the seat belt anchor can be adjusted to accommodate the height of the wearer.

Short people should select a low anchor position; tall people a higher one. This ensures, for both safety and comfort, that the webbing of the seat belt fits on the shoulder as shown.

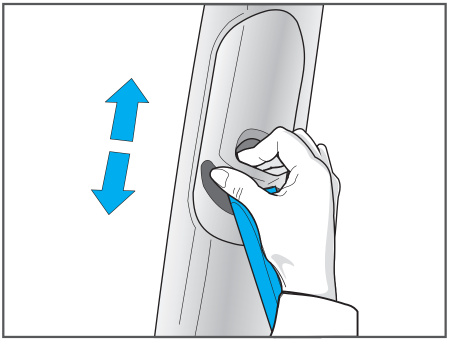

Z150R189

Squeeze the adjuster and move it up or down as required. Ensure the anchor clicks into position.

WARNING:

For your safety, do not adjust the driver's side shoulder anchor while the vehicle is in motion.

The driver and all passengers should be properly restrained at all times with the seat belts provided in the vehicle. Failure to do so could increase the chance of injury and / or the severity of injury in accidents.

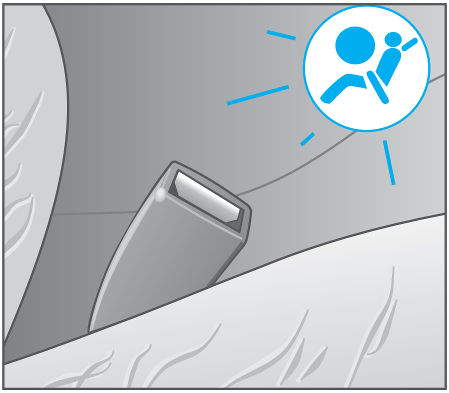

Z150R190

SEAT BELTS cont.

Seat belt pretensioners

The front seat belt system incorporates seat belt pretensioners. Seat belt pretensioners are part of the Supplemental Restraint System (SRS) and operate in conjunction with airbags. In the event of a severe frontal collision the belt buckles are pulled downwards, instantly tightening both the diagonal and lap sections of the seat belt.

If the belt pretensioners have been activated, the **SRS** light on the instrument panel will not go out after the usual few seconds. This is designed to remind you that the pretension system has been used and therefore needs to be replaced by your Holden Dealer. The seat belts will remain operational, apart from this safety feature.



If the **SRS** light comes on at any other time, or if the warning 'SRS Airbag Fault' is displayed on the instrument panel, see your Holden Dealer immediately to have the system checked. Refer to Chapter 1 for further information about warnings and reminder indications.

The driver and all passengers should be properly restrained at all times with the seat belts provided in the vehicle. Failure to do so could increase the chance of injury and / or the severity of injury in accidents.

WARNING:

- Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.
- Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.
- Take care to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.
- It is essential to replace the entire assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious.
- Belts should not be worn with straps twisted.
- Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.
- No modification or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.
- The positioning of the tongue restrictor must never interfere with, or stop, the belt from fully retracting.

WHICH TYPE OF CHILD RESTRAINT FOR YOUR CHILD?

Children should be restrained at all times and fitted with a child restraint appropriate to their size when travelling in a vehicle. Following are some guidelines about selecting the appropriate restraint for your child.

Infants

Designed so that in the event of a collision, impact forces will be evenly spread over the baby's back, with minimal jarring to the vulnerable head and neck area.

Young children

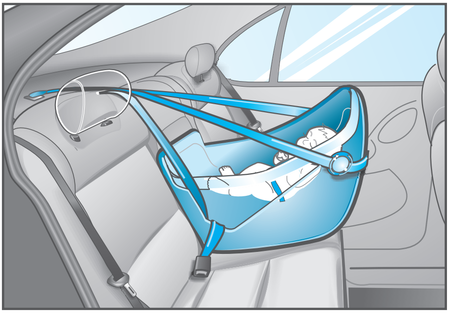
For use when the child is able to sit and easily hold his or her head upright. It is also possible to purchase convertible seats which can be used as a rearward facing infant restraint or converted to a forward facing child seat.

When children outgrow a typical forward-facing child seat but they are still too small for lap / sash seat belts. A booster seat raises the child so that the knees bend comfortably, the lap / sash seat belt is correctly positioned and the child can see out the window. A rigid booster seat with a back, side wings and sash guide gives the best protection. In assessing the range of children who would benefit from booster seats, height is a better indicator than age or weight.

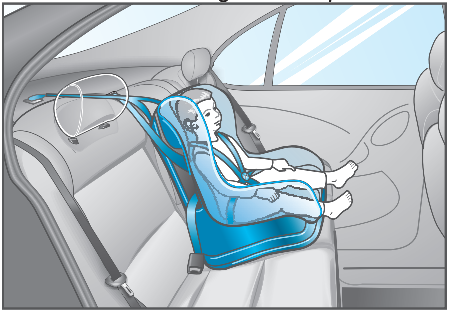
Older children

A child should use a normal lap / sash seat belt only when:

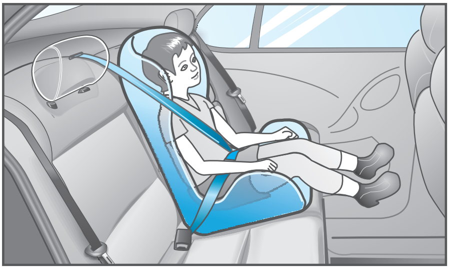
- he / she can sit against the back of the rear seat with knees bent comfortably at the edge of the seat,
- lap belt rests low and snug across the hips – not across the stomach,
- sash belt is centred on shoulder and chest,
- he / she is able to stay seated like this for the entire trip.



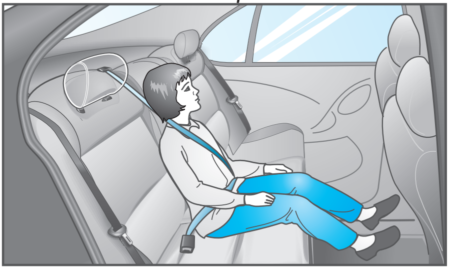
Rearward facing infant capsule



Forward facing child seat



Booster seat with lap / sash seat belt

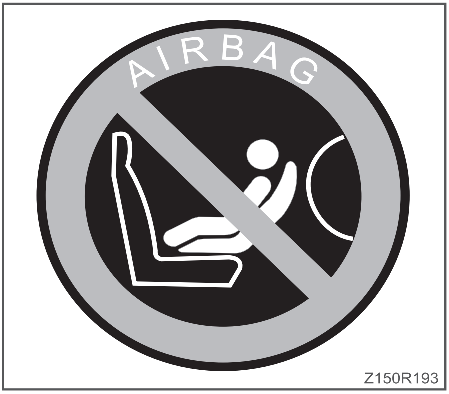


Adult lap / sash seat belt

CHILD RESTRAINTS

WARNING – EXTREME HAZARD:

- Do not use a rearward facing child restraint on a seat protected by an airbag in front of it. The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.
- NEVER install a child restraint in the front seat of a vehicle fitted with Side Impact Airbags. Remember that it is safest for children to be seated in the rear seats.



Children should be restrained at all times when travelling in a vehicle.

Always ensure that the seat belt fits firmly around the child restraint.

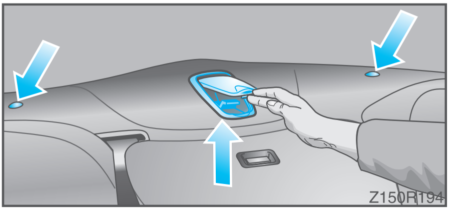
If a child can not see out of the window, do not raise him / her by means of an ordinary cushion. It will not stay in place in a collision and the child can slip out of the straps and become entangled.

WARNING:

- Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.
- Only child restraints that have clips to attach to the vehicle's anchorage fitting (as shown in the following illustration) are to be used. Earlier types of child restraints may not attach securely to this type of anchor.
- Only Standards Australia approved child restraints and harnesses should be used. You should only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.

Your vehicle is fitted with three anchorage points for child restraints. An anchor fitting has been provided in the centre position. Anchor locations are behind the rear seats, as shown.

The centre position is hidden by a hinged cover. Pull the cover up at the front to access the anchor.



ADDITIONAL CHILD RESTRAINTS

All vehicles are fitted with one child restraint anchor in the centre position. Additional anchor fittings may be installed at the other anchorage points in your vehicle as shown. Fittings may be purchased from your Holden Dealer.

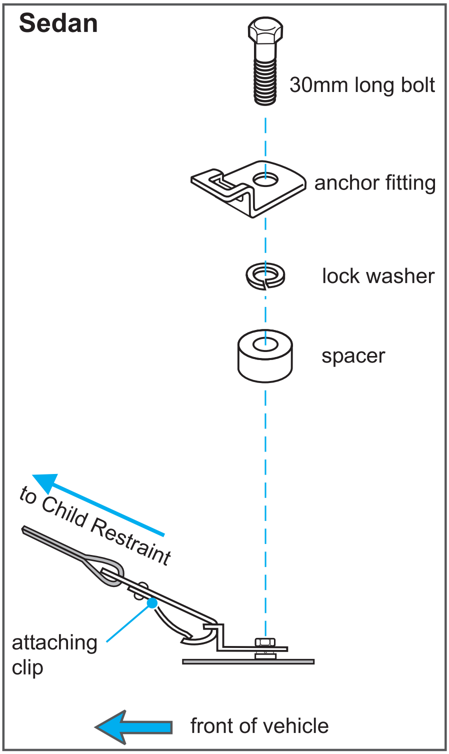
WARNING:

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.

Only child restraints that have clips to attach to the vehicle's anchorage fitting (as shown in the following illustration) are to be used. Earlier types of child restraints may not attach securely to this type of anchor.

Only Standards Australia approved child restraints and harnesses should be used. You should only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.

If you wish to put a child restraint in either of the outer positions, first remove the cover plug. Then, install the additional anchor fitting using the bolt, lock washer and spacer (5mm, 7.5mm, 10mm or 15mm size to suit), as illustrated.



Z150R195

Ensure that the bolts are securely tightened to between 15 and 25 Nm (Newton metres). Check with your Holden Dealer if unsure.

POWER WINDOWS

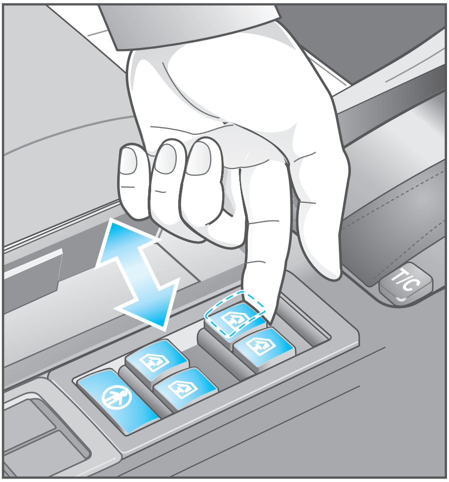
Power windows

The main power window switches are located between the front seats.

The switches also remain operational when the ignition is turned off for approximately 1 hour while the doors remain closed and for 45 seconds after a door is opened.

Note: Green lights in the switches indicate when they are active.

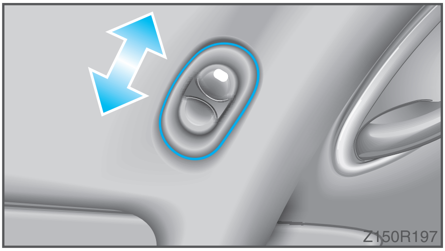
To raise the window, pull up the switch; to lower, push down the switch.



Z150R290

Rear power windows can also be operated by individual switches located on the rear doors.

The rear door switches can be deactivated / reactivated by pressing the 'child safety' switch located rearward of the power window switches in the centre console. The rear window switches are deactivated when the switch is in the down position.



Z150R197

Auto down – front windows only

Hold the switch down for more than half a second and then release. To interrupt the 'auto down' operation, move the switch up or down again.

Rock the down button to open the window in short steps.

Time delay

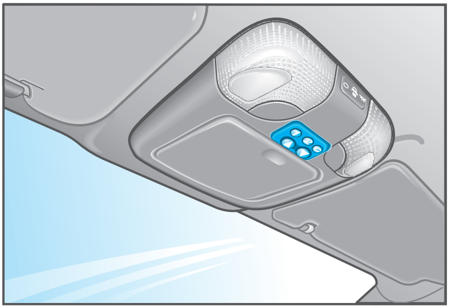
The windows can be operated for approximately 1 hour after turning off the ignition or pressing UNLOCK on the vehicle key, provided all the doors are kept shut. Once a door is opened, the windows can only be operated for 45 seconds. The green 'active' light in the switches will go off when the time delay finishes.

Pressing LOCK on the vehicle key disables the windows immediately.

SUNROOF (if fitted)

Sunroof (if fitted)

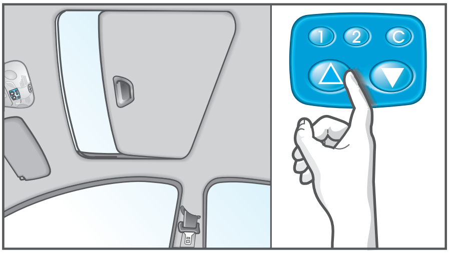
The sunroof control buttons are built in to the roof console which is located at the centre-front of the roof's interior, directly above the windscreen.



Z150R198

Opening the sunroof

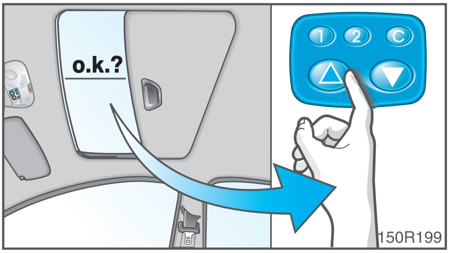
Press the button briefly (maximum 0.3 second) to open the sunroof fully. Pressing the button while the panel is moving will stop the sunroof at any desired position. Press the button once more to resume opening the sunroof.



Closing the sunroof

Press the button briefly (maximum 0.3 second) to close the sunroof fully. Pressing the button while the panel is moving will stop the sunroof at any desired position. Press the button once more to resume closing the sunroof.

Press the button to completely close the sunroof from any slide or tilt position.



150R199

SUNROOF (if fitted) cont.

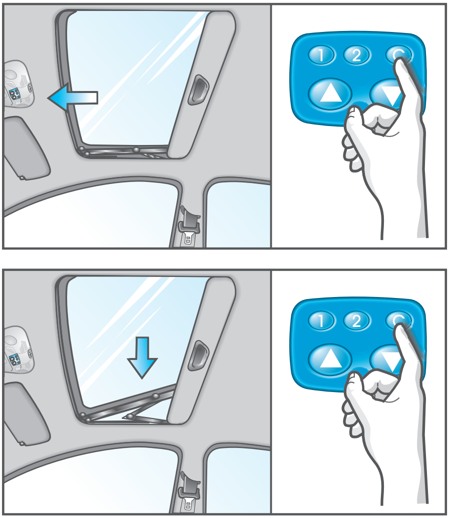
Auto-close function

After turning off your vehicle's ignition, the sunroof closes automatically, 3 seconds after giving a warning beep. During this 3 second interval, you can stop the sunroof from closing by pressing either of the arrow buttons (or). Once the sunroof has commenced closing, pressing either of the arrow buttons will stop the panel at any desired position.

WARNING:

Keep hands and fingers clear of sunroof tilting mechanism when operating sunroof.

Note: A jamming protection facility becomes active whenever the sunroof is closed manually or automatically. If the panel encounters an obstacle while closing, it will immediately open again. The sunroof will continue to try and close until the obstacle has been removed.

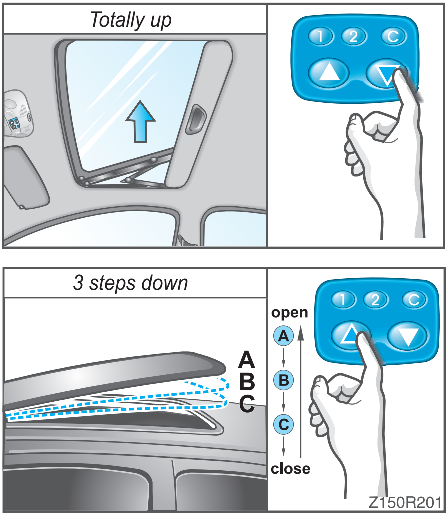


Z150R200

Tilting the sunroof

The sunroof panel may be tilted to three different tilt positions (A, B and C) as shown.

To tilt the sunroof fully to the A position, from the closed position, press the button briefly (maximum 0.3 second). Press the button once and hold for each tilt level (B and C), to achieve the desired position.



Z150R201

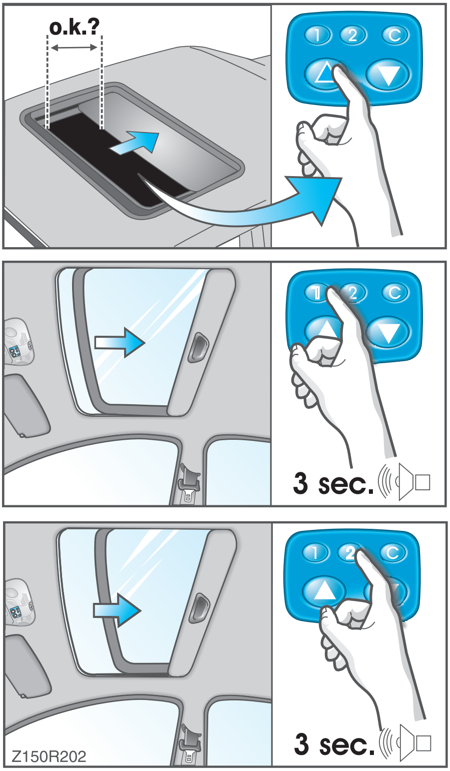
SUNROOF (if fitted) cont.

Preset sunroof positioning

The sunroof may be programmed to stop at either of two preset positions (and) automatically.

To program preset positions:

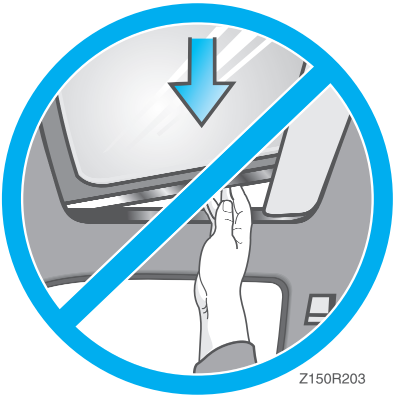
1. Place the panel in the desired position.
2. Push and hold button for approximately 3 seconds until a beep is heard.
3. Place the panel in the second desired position.
4. Push and hold button for approximately 3 seconds until a beep is heard.



Z150R202

Opening the sunroof using button or will stop the sunroof in either preset position as programmed.

WARNING:
The scissor action of the parts when moving may cause serious personal injury and / or may dismember fingers.



Z150R203

Cleaning and maintenance

Clean the glass panel of your sunroof using a mild, non-abrasive detergent and a moist, soft cloth.

WARNING:
The tinted glass panel of your sunroof is heat and UV resistant. Ensure that due care is taken, and that the above directions are followed when cleaning.

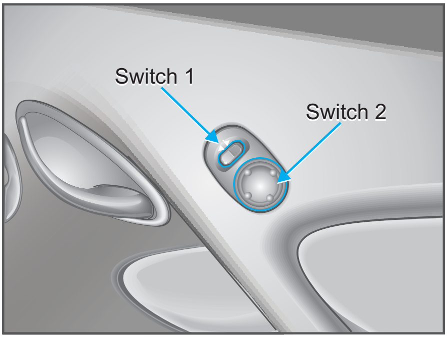
EXTERNAL MIRRORS

The vehicle is fitted with both driver and passenger side external rear view mirrors. Adjust both mirrors by using the switches on the driver's door armrest, when the ignition is turned on.

1. Rock switch 1 to the left to select the left mirror or to the right to select the right mirror.
2. Press a dot on the edge of switch 2 in the direction you wish the mirror to move. The mirror can move up, down, left or right.

WARNING:

The passenger's mirror is convex shaped, to provide a wider view. Objects seen in this mirror will appear further away than they actually are.



Z150R205

Personal identity keys (Caprice models)

When the vehicle is unlocked with the UNLOCK button on the ignition key the vehicle identifies the key and moves both exterior mirrors to the last adjustment used for that key. Refer also to 'Personal Identity Keys' in Chapter 2.

EXTERNAL MIRRORS cont.

External mirror DIP (Caprice models)

When the transmission selector is moved to Reverse, the external passenger mirror automatically moves to an alternative preset view, for instance down at the kerb.

The DIP system is operational when the ignition is On and Reverse gear is selected. DIP can be turned on (DIP view) or off (normal view) by pressing the DIP / store button (M) on the side of the driver's seat.

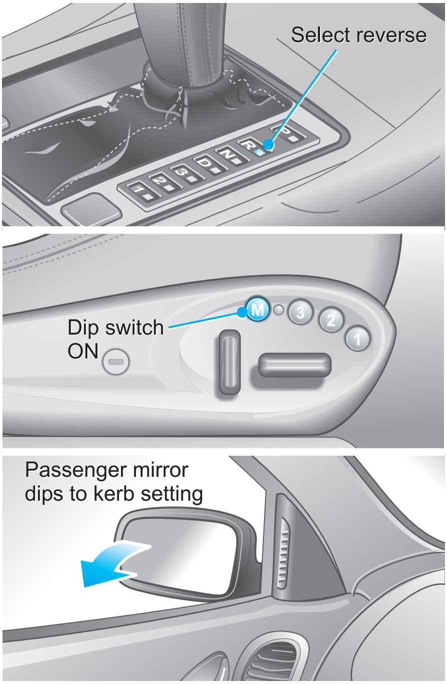
- DIP option on, a double chime sounds.
- DIP option off (normal view), a single chime sounds.

While in Reverse gear the passenger's side mirror view can be changed by briefly pressing the DIP / store button (M):

- DIP view to normal view, single chime.
- Normal view to DIP view, double chime.

The next time Reverse is selected the mirror will resume the previously set DIP or normal view.

The alternative (DIP) view is adjustable by the driver. To adjust the DIP view:



Z150R292

1. Turn the ignition On.
2. Select Reverse gear.
3. Ensure that DIP view is switched on (refer above), the passenger's side mirror will move to current DIP view.
4. Adjust the mirror with the mirror adjustment switch.
5. Move the transmission selector out of Reverse.
6. Press the DIP / memory store button (M) followed by the desired memory button (1, 2 or 3) to also save the DIP mirror position into memory (optional).

The next time Reverse is selected the mirror will move to the new position.

The vehicle remembers the alternative view and if DIP was turned on or off for each ignition key and for each seat memory position. Refer previously in this chapter. When the UNLOCK button is used on the vehicle, the vehicle identifies the key and sets the mirror to that driver's preference. Refer to 'Personal Identity Keys' in Chapter 2.

Heated exterior mirrors (Caprice models)

Heating is provided to both external mirrors when the rear window demister is switched on.

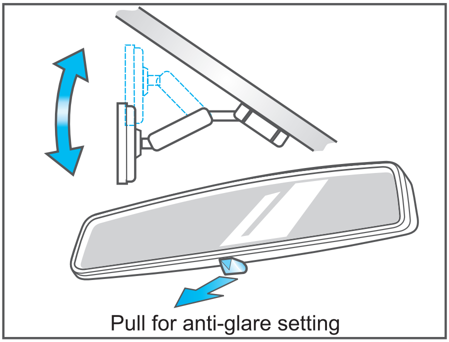
INTERNAL MIRRORS

Internal rear view mirror

Moving the lever on the lower edge of the mirror reduces headlight glare from following vehicles when driving at night.

During daylight driving, set the lever forward, away from the driver. At night, flick the lever towards the driver.

Note: Rear view clarity is reduced when the mirror is set to the 'night' position.



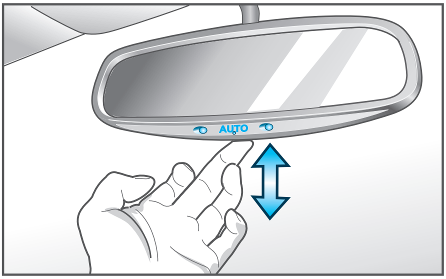
Z150R204

Mirror, auto day / night switch (Caprice models)

A switch is provided on the lower edge of the mirror. When the switch is set to on, the mirror will automatically switch in and out of night view, as required.

Note: When the transmission is put into Reverse, day view is activated.

Move the switch to off to select permanent day view.



L150R197

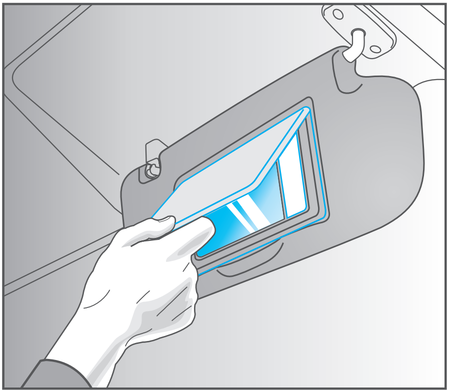
INTERNAL MIRRORS cont.

Vanity mirror with light

A vanity mirror is provided on both the passenger's and driver's side sunvisors.

The mirror cover is hinged at the top. To view the mirror, pull the cover up from the lower edge.

The lights at either side of the mirror automatically turn on and off when the cover is opened and closed.

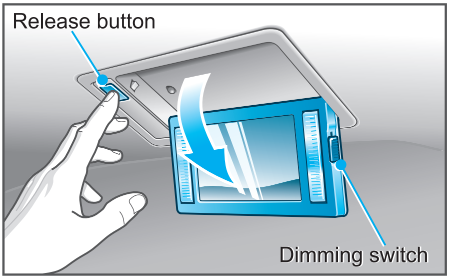


Z150R208

Roof mirror (Caprice models)

There are two additional mirrors fitted in the roof console, just in front of the rear seats. Push the release button to reveal and illuminate the mirror.

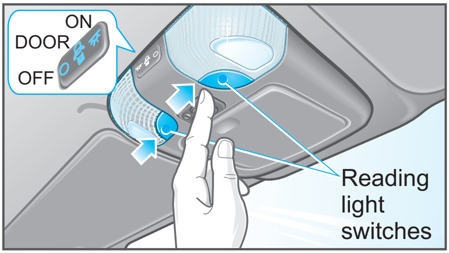
The switch at the side of the mirror alternates illumination between bright and dim. When finished, push the lid back into place and the light automatically switches off.



L151L020

INTERIOR LIGHTS

Interior (dome) light



Z150R210

The interior (dome) light is located in the centre-front of the roof's interior (in the roof console). It can be switched to:

- **ON** (always on)
- **DOOR**
- O **OFF** (always off)

DOOR: The light automatically switches on when a door is opened and switches off 30 seconds after all doors are closed. Switching the ignition on turns the light off immediately (unless a door remains open). DOOR is the centre position for the switch.

For your convenience, the interior light can be set at the instrument panel to remain illuminated for a period of 0 to 255 seconds after the ignition has been turned off. Refer to Chapter 1, OPTIONS MENU for details about this setting.

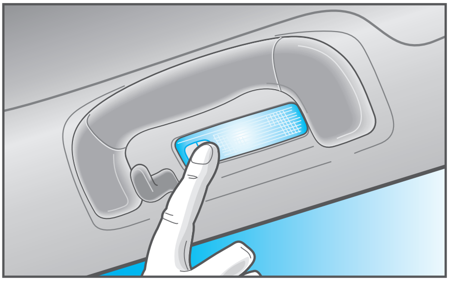
The operation of interior lights is also affected by the Battery Saver and Accessory Control features. Refer further on in this chapter for details.

Front reading lights

Front reading lights are incorporated in the dome light assembly. Press the individual switches to turn the reading lights off or on, as required.

Rear reading lights

The rear reading lights (above the rear doors) may be individually turned to OFF, ON or to DOOR. If DOOR is selected, then they operate in the same way as the dome light.



Z150R211

ACCESSORY CONTROL AND BATTERY SAVER

Accessory Control

The vehicle is equipped with an accessory control feature that can be set at the instrument panel to shut down all accessories (radio, power socket, wipers, for example) either when the ignition key is turned Off, or when the driver's door is opened. Refer to Chapter 1, OPTIONS MENU for details about this setting.

A 1 hour timer will also shut down accessories (radio, power socket, wipers, for example) where the accessory control feature has been set to 'Door Open' or after an accessory has been turned on manually once the ignition is Off. For example, if accessory control is set to 'Door Open', and the radio is on, the radio will continue to operate until such time as the driver's door is opened. However, if the door is not opened, the radio (and other operating accessories) will be shut down automatically 1 hour after the ignition is turned Off.

Note: Operating accessories do NOT turn off immediately when the vehicle is locked using either the remote locking device or the driver's door key. Accessories are only subject to manual operation, accessory control settings and the 1 hour shut down timer.

If you want the accessories to continue operating once an automatic shutdown has occurred, you must 'wake up' the system by either manually starting an accessory (for example, turning the radio on again), or by turning the ignition to On and then Off again (if accessory control is set to 'Door Open'). These actions will reset the timer to zero. Likewise, if the radio is turned to on at any time during the 1 hour period, the timer is reset to zero and all accessories will continue to operate for a further hour. Please note that once an automatic shutdown has been activated (for example, ignition turned Off or door opened), the accessory control setting will no longer be active (for example, accessories will not be switched off by opening the driver door even if accessory control is set to 'Door Open'). To enable accessory control after the system has been reset, you must turn the ignition On and then Off again.

Note: The one hour shutdown timer only operates if the key is in the Lock position (turned off). The timer is not active if the key remains in the Accessories or On positions.

Battery Saver

The battery saver feature ensures that all internal lights (dome, reading, foot well, ignition, door, glovebox and boot) switch off automatically after 1 hour to discourage depletion of your battery.

The battery saver will activate when there have been no lights or accessories turned on for 1 hour after the ignition has been switched off.

Once the interior lighting system has been shut down by the 1 hour battery saver, it can be 'woken up' by a number of actions, such as turning the ignition On, unlocking the vehicle, or opening the boot, for example. Once the system is awake, the 1 hour battery saver time resets to zero and interior lights will continue to operate for a further hour, or until the vehicle is locked.

The interior lighting system will shut down 10 seconds after your vehicle is locked using either the remote locking device or the driver door key. However, please note that if an interior light (such as the dome light) has been turned on manually and is illuminated at the time the vehicle is locked, the lighting system will not shut down after the usual 10 seconds; the 1 hour battery saver will be activated instead.

Hazard Lights

Note: Hazard lights are not subject to either the accessory control or battery saving devices. They will continue to operate outside the 1 hour timed shutdown that applies to other interior lights and accessories, and also in all ignition key positions (On, Accessories and Lock).

GLOVEBOX AND CENTRE CONSOLE

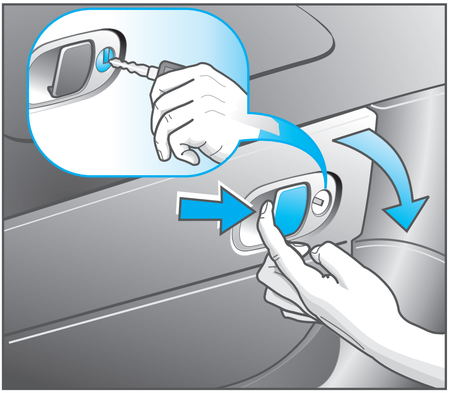
Glovebox

The glovebox is located in the dashboard directly in front of the passenger seat.

A specific key is provided solely to lock and unlock the glovebox. For security, the master key is not designed to operate the glovebox lock. Refer to Chapter 2 for more information about keys.

To lock, insert the glovebox key, turn it clockwise and then withdraw. To unlock, insert the glovebox key and turn it anticlockwise.

To open the glovebox, pull the outer side of the catch towards you. To close, push the lid firmly back into place.



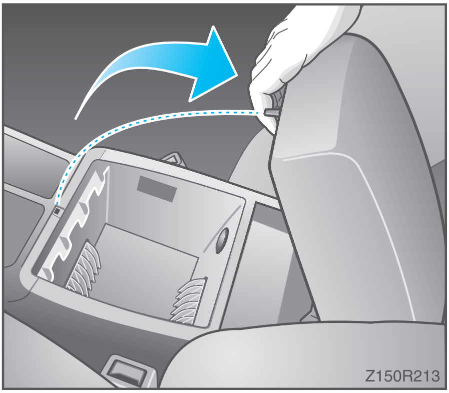
L150R198

Centre console

The front armrest opens into a storage area. To open, press the latch (if fitted) on the underside of the front lip and lift the lid to a near vertical position.

Note: Do not force the console lid further backwards.

The rubber lining inside the console has been designed to hold CDs, coins and a pen. It also provides space to accommodate a standard mobile telephone / charger which may be plugged into the power socket located inside the console. Refer to 'Power sockets' further on in this chapter.



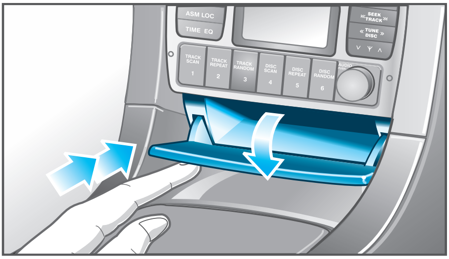
STORAGE COMPARTMENTS

Front and rear storage compartments

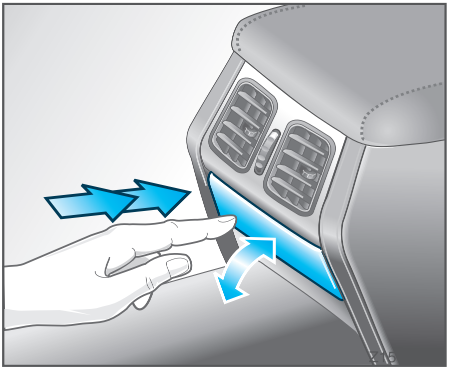
All vehicles are built with storage compartments, front and rear, which are fitted with a 'push-push' cover. The front storage compartment is located beneath the radio system, and the rear storage compartment is at the rear of the centre console.

The storage compartments can be replaced, if required, by an ashtray assembly (refer to ‘Ashtray and lighter option’ further on in this chapter).

An open storage bin is also provided beneath the main front storage compartment (or ashtray) to accommodate coins and other small objects.

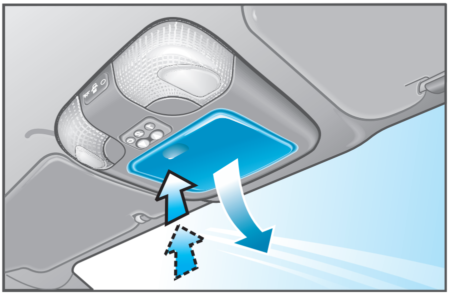

ASM LOC
TIME EQ
TRACK SCAN 1
TRACK REPEAT 2
TRACK RANDOM 3
DISC SCAN 4
DISC REPEAT 5
DISC RANDOM 6
AUDIO
SEEK TRACK
TUNE DISC

Z150R293



Sunglasses holder

The sunglasses holder is located centre-front of the roof's interior. It is designed to accommodate one pair of sunglasses and uses a ‘push-push’ mechanism for opening and closing. Push once on the surface of the cover to open the sunglasses holder, then push once again to close it.



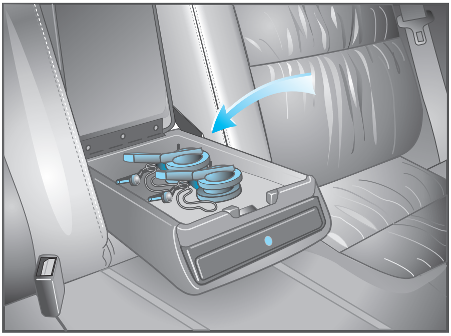
Z150R214

STORAGE COMPARTMENTS cont.

Rear seat arm rest storage compartment

The rear seat arm rest has a built-in storage compartment. When the armrest is folded down the cover can be lifted up after pressing the catch at the front.

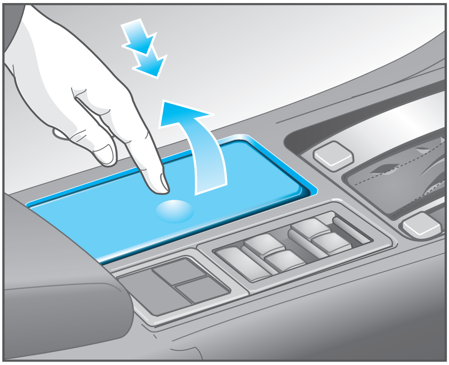
Note for Caprice models: The audio system rear passenger headphones are stored in this compartment.



L150R204

Telephone storage

The telephone storage tray is located forward of the centre console. The telephone storage area is fitted with a 'push-push' lid which may be opened or closed by pushing once on the lid surface.



Z150R294

ASHTRAY, LIGHTER, POWER SOCKETS

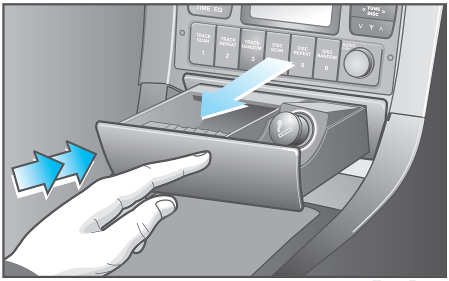
Ashtray and lighter option

If required, the vehicle can be fitted with an ashtray and lighter instead of front and / or rear storage compartments. Your Holden Dealer can order and fit the ashtray and lighter for you.

Ashtray (if fitted)

The ashtrays are fitted with a 'push-push' cover. To use the ashtray, push the cover inwards and the ashtray will simply slide open.

The ashtray may be removed for cleaning. To do this, open the ashtray and then grip the receptacle at the finger depressions located on each side. Then simply pull the receptacle out.



Z150R215

Cigarette lighter (if fitted)

The cigarette lighter is housed inside the ashtray assembly and can be operated whenever the ignition is turned On.

Press in the lighter knob; when the element is hot, the lighter automatically pops out and is ready for use.

Note: The cigarette lighter should not be used as a power socket. Use one of the power sockets provided. Refer to ‘Power sockets’ below.

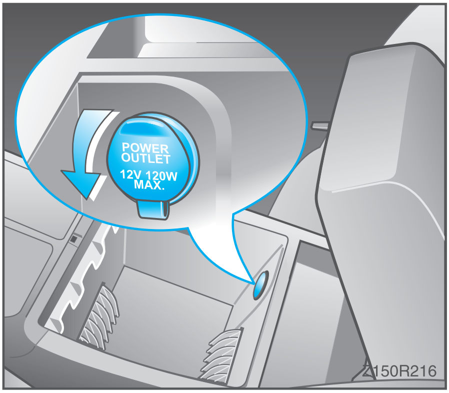
Power sockets

Your vehicle is provided with two power sockets:

- One in the centre console, inside the storage compartment.
- One inside the boot (on the right-hand side).

The power socket in the centre console is operational when the ignition is turned to either the On or Accessories positions.

The power socket in the boot is operational at all times, regardless of the ignition switch position.



Z150R216

Note:

- Any device left connected to the power socket in the boot will continue to draw current from the vehicle’s battery even when the vehicle is switched off and locked. This may cause the vehicle battery to run flat if the device is left connected for extended periods.
- Any accessory device (mobile phone, car fridge, for example) connected to a power socket must not exceed a current draw of 10 amps.

WARNING:

It is dangerous for the driver of a vehicle to attach or remove accessories from the power socket whilst driving. It may distract their attention, putting the occupants of the vehicle and other road users at risk.

CUP HOLDERS

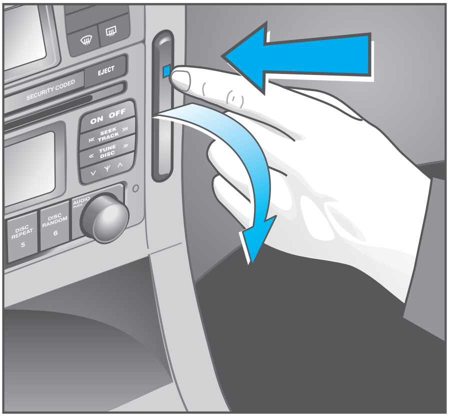
WARNING:

- Do not forget full cups when accelerating and braking! To avoid spillage, it is recommended that any cups placed in the holders have lids.
- Cup holders are designed for holding standard size soft drink cans and smaller size bottles. Larger drink bottles or cups should not be forced into the cup holders, as they may become jammed or damage to the mechanism may occur.

Front cup holders

Your vehicle is fitted with cup holders that are stowed in the dashboard, either side of the radio.

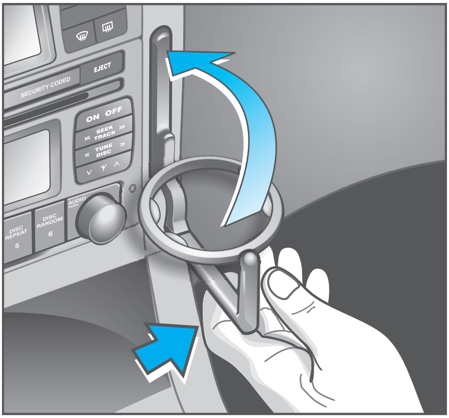
To open, push once on the upper surface of the cup holder mechanism as shown.


EJECT
SECURITY CODED
ON OFF
SEEK TRACK
TUNE DISC
AUDIO
DISC REPEAT 5
DISC RANDOM 6

Z150R217

To close, gently raise the cup holder from beneath its base and push it back into the stowed position as shown.

Note: The circular rim of the cup holder rotates automatically to the open (horizontal) or closed (vertical) positions, as required.


EJECT
SECURITY CODED
ON OFF
SEEK TRACK
TUNE DISC
AUDIO
DISC REPEAT 5
DISC RANDOM 6

Z150R218

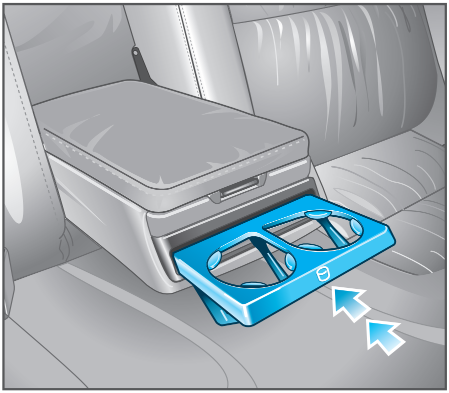
CUP HOLDERS cont.

Rear cup holders

The vehicle is fitted with cup holders that are stowed in the front of the armrest.

To open, push once on the surface of the cup holder mechanism as shown.

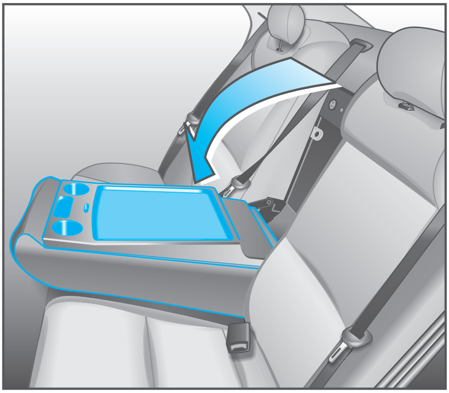
To close, push cup holder mechanism back into the stowed position as shown.



L151L022

The vehicle is also fitted with cup holders built-in to the underside of the fold down section in the centre of the rear seat.

Note: Take care to remove all cups from the rear holders before returning the fold down section of the seat to its upright position.



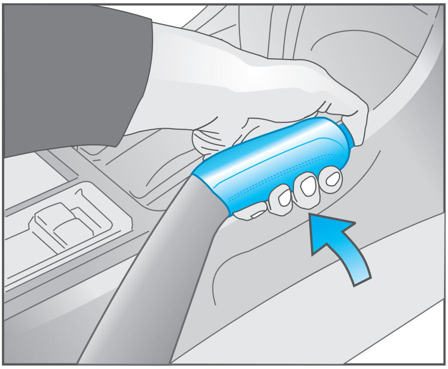
Z150L186

PARK BRAKE, FUEL FILLER RELEASE, FOOTREST, ASSIST GRIPS

Park brake

The park brake lever is located between the front seats.

- To apply, pull the lever straight up, without pressing the release button. To release, pull the lever slightly upwards, push in the release button on the end of the lever and whilst pressed, lower the lever all the way down.
- When the ignition switch is turned to on, a symbol on the instrument panel indicates that the park brake is applied.
- NEVER drive the vehicle with the park brake applied.
- If you attempt to drive off without releasing the park brake, a warning chime sounds.

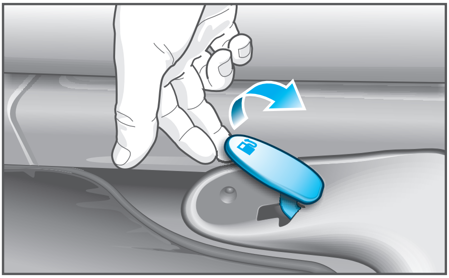


Z150R296

Fuel filler release

Pull up the release lever on the floor, to the right of the driver's seat to open the fuel filler cover.

Refer to Chapter 5 when refuelling.



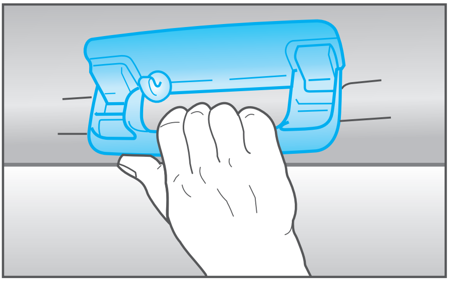
Z150R285

Footrest

The footrest for the driver's left foot is adjustable to three positions. First remove the caps and undo the two screws on the right hand side of the footrest. Move the footrest forward or backward as required, then replace the screws and caps. See your Holden Dealer for assistance with this adjustment if necessary.

Assist grips

Assist grips are provided above the doors. When released, they will spring back into their stow position against the roof.



Z150R220

NOTES

CHAPTER 4

Driving

Page

4-2 Safety
4-3 Engine starting
4-4 Automatic transmission
4-11 Anti-lock brake system
4-12 Traction control
4-14 Electronic stability program
4-16 Tyre pressure monitioring system
4-18 Driving precautions
4-20 Add on equipment

SAFETY

Before entering the vehicle

- Check that windows, mirrors and lights are clean.
- Visually check tyre inflation.

  Note: It is recommended that the tyre pressures are checked with a pressure gauge each week.

Before driving off

1. Ensure that all doors are closed and secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check that all the warning indicators light up when you turn the key to start the engine. Refer to Chapter 1.

Parking

1. Apply the park brake.
2. Place the automatic transmission in P (park).
3. Shut all windows.
4. Turn ignition key to the Lock position and remove the key.
5. Lock all doors by pressing the LOCK button on the key (once to lock, twice to deadlock) when outside of the vehicle. Refer to Chapter 2.

Note: The engine fan may keep going for several minutes after the ignition has been turned off. This is normal.

WARNING:

- Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.
- Never leave the engine running in an enclosed space such as a closed garage or underground car park.

ENGINE STARTING

1. Ensure that the park brake is firmly applied and release it only after you have started the engine and are ready to drive off.
2. Move the automatic transmission gear selector to P (park) or N (neutral) position. The engine will not start if it is in any other position.
3. For cold or hot starting:

   V6: The Alloytec engines are fitted with the auto start feature. Simply turn the key to the start position and then release.

   V8: Turn the key to the start position and release when the engine starts.

   Note:
   - Keep your foot off the accelerator pedal prior to and during starting.
   - Pressing the accelerator pedal will only increase cranking time and will not help the engine to start.
   - Do not subject the engine to high load conditions such as full throttle acceleration or high speeds until it has completely warmed up otherwise you may cause premature engine wear or engine damage.

Engine will not crank or start

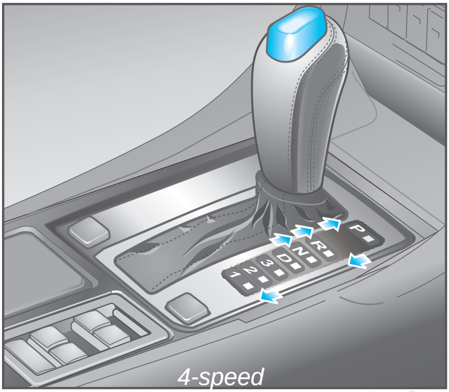
- Press and release the UNLOCK button on the key and try starting the engine again.
- Never press the key buttons while cranking the engine.
- Remove the key from the ignition, insert the key and try starting the engine again.

Note: If the 'Immobiliser Fault' animation illuminates while attempting to the vehicle, a fault in the vehicle's immobiliser module is indicated. The vehicle will not start with an immobiliser fault, contact your Holden Dealer to have the fault rectified.

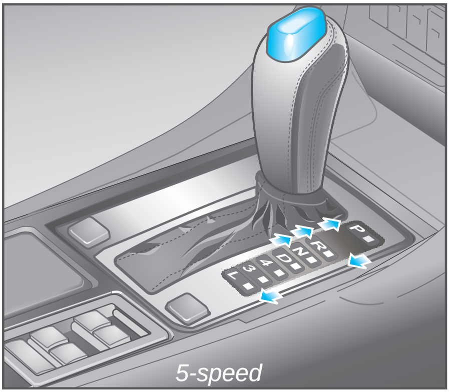
AUTOMATIC TRANSMISSION

Floor mounted shift

Press the select button on top of the transmission gear selector lever when shifting into any position indicated by the blue arrows.



L150R169

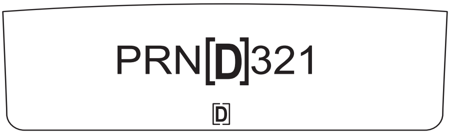


L150R170

When the position of the transmission gear selector is changed, a large animation illuminates on the instrument panel centre display above the constantly illuminated smaller icon at the bottom middle of the display.

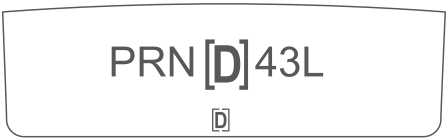
The brackets around the gear letter on the large animation move according to what gear is selected on the transmission gear selector. The gear letter within the brackets is also magnified when selected. The gear letter on the smaller icon changes in conjunction with the large animation.

The large animation appears for 2 seconds after the gear is selected and then extinguishes. The smaller icon in the bottom middle of the display remains illuminated indicating the gear selected.



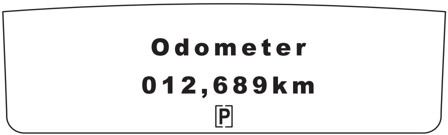
L150R027

4-speed



L150R189

5-speed



L150R007

AUTOMATIC TRANSMISSION cont.

Note: If any warnings are active on the display, the large animation will not be shown and only the bracketed smaller icon at the bottom middle of the display changes when the transmission gear selector is moved.

WARNING:

- Do not press the accelerator pedal with the brakes on in any gear except P (park) or N (neutral). This will overheat the transmission.
- Do not use the accelerator pedal to hold the vehicle on a slope. Use the brakes.
- Do not coast the vehicle in N (neutral) – this lessens your control and you may need to accelerate quickly in an emergency.

Note:

- Refer to Chapter 7 when checking automatic transmission fluid level (4-speed only).
- The engine will not start unless the transmission gear selector is in P (park) or N (neutral).

Modes of operation

The transmission operates in the following modes (depending on the transmission fitted):

- **Power** shift mode has revised automatic transmission shift points, to provide the vehicle a more responsive feel.

  Note: (5-speed only) When operated in Power shift mode, the transmission will stay in gear longer and allow earlier downshifts, so that lower gears / higher rpms are typically used in most driving conditions improving performance and acceleration.

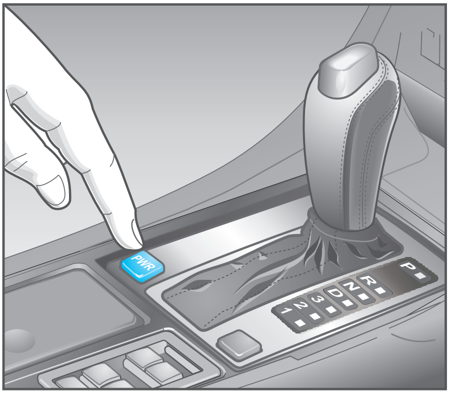
  Performance Algorithm Liftfoot – Power Shift mode also features adaptive shift characteristics activated when the driver uses wide open throttle settings followed by sudden throttle releases, to indicate they are driving in a sportier manner.

  The transmission adapts to the driving conditions by holding gears when the throttle is suddenly lifted. For example, it will hold the current gear instead of upshifting when the throttle is released entering a corner.

  The transmission also downshifts at higher speeds to increase the level of engine braking available. For example, if the vehicle is slowed under braking before entering a corner, the transmission downshifts at higher speeds than normal to assist with engine braking.
- **Normal** shift mode is recommended for normal or freeway driving, as it provides better fuel economy.
- **Cruise** shift mode is active when the cruise control is maintaining the vehicle speed. The transmission overrides the Power / Normal / Active Select mode selection and operates in Cruise shift mode, providing optimum driveability. Cruise shift mode is neither a Power / Normal / Active Select mode shift pattern, therefore the **PWR** icon extinguishes when the cruise control is maintaining vehicle speed.
- **Active Select** (A/S) mode (5-speed only) enables the vehicle to be driven manually by shifting between gears using steering wheel mounted shift paddles. In Active Select mode the vehicle can be driven in a more sports orientated manner or, for example, it can provide better engine-braking by selecting the appropriate lower gear on a steep down-hill run.

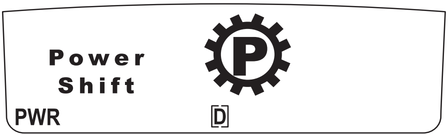
AUTOMATIC TRANSMISSION cont.

The PWR button is located on the passenger's side of the centre console, next to the transmission gear selector. Press the PWR button to place the transmission in Power shift mode. Press the PWR button again to select Normal mode.



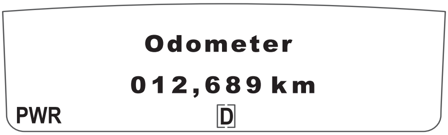
L150R171

The 'Power Shift' animated symbol and small **PWR** icon display when Power shift mode is selected.



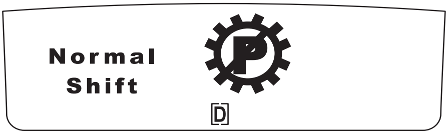
L150R032

After 2 seconds the animated symbol reverts to the original trip computer display with a small **PWR** icon on the left.



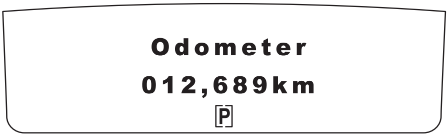
L150R202

When Normal shift mode is selected (Power shift mode off), the **PWR** icon extinguishes immediately and the 'Normal Shift' animation displays.



L150R028

After 2 seconds the animated symbol reverts to the original trip computer display.



L150R007

Downshifting

The transmission will downshift to a lower gear depending on the vehicle’s speed and the throttle pedal position applied by the driver. For example, if full throttle is applied the transmission will downshift to a lower gear for maximum acceleration.

Note: The transmission will not downshift automatically in Active Select mode.

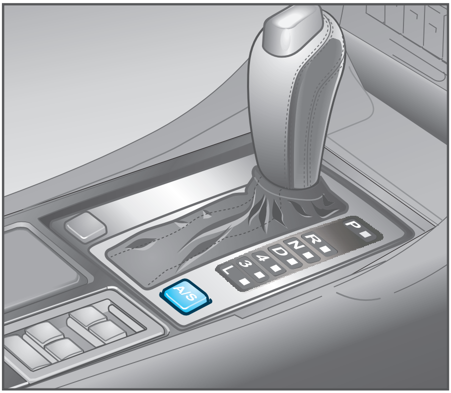
Personal Identity Keys: When the key is inserted in the ignition and turned on, the system identifies the key and sets the Power / Normal selection to the last adjustment used for that key. Refer to 'Personal Identity Keys' in Chapter 2.

AUTOMATIC TRANSMISSION cont.

The Active Select (A/S) mode button is located on the driver's side of the centre console on vehicles fitted with a 5-speed automatic transmission. Press the A/S button to select Active Select mode.

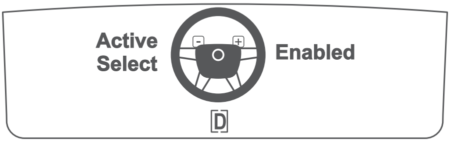
Note:

- Active Select mode can only be enabled when the transmission gear selector is in the Drive (D) position.
- If Active Select mode is enabled when cruise control is active, the shift pattern will be determined by the driver's use of the shift paddles.



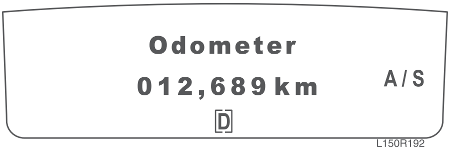
L150R190

When the Active select mode is enabled the 'Active Select Enabled' animation appears for 2 seconds on the instrument panel centre display, then reverts to a small **A/S** icon on the right side of the display.



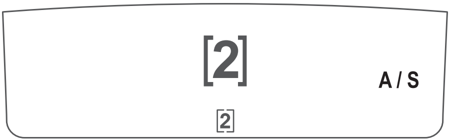
L150R191

The small **A/S** icon remains illuminated while the transmission is in the Active Select mode.



L150R192

In A/S mode, when a gear is selected using the + / – paddles, a large animation of the gear selected is displayed for 3 seconds, then reverts to a small icon in the bottom centre of the instrument panel centre display which updates according to the currently selected gear.



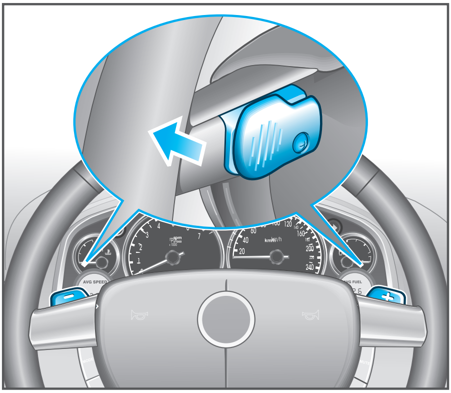
L150R193

Shift paddles

To enable the manual selection of the gears, two paddles are mounted on the steering wheel.

- The **+** paddle on the right of the steering wheel is used to shift up the gears.
- The **–** paddle on the left of the steering wheel is used to shift down the gears.

  Note: Park, reverse and neutral can only be selected using the transmission gear selector.



L150R194

AUTOMATIC TRANSMISSION cont.

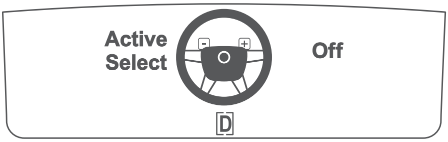
Note:

- Safeguards have been programmed into Active Select mode preventing the transmission from changing down to a lower gear if the speed of the vehicle exceeds the maximum for the gear selected by the driver.
- The transmission will not change up to a higher gear if the vehicle speed is too slow for the selected gear.
- The transmission automatically selects a lower gear if the vehicle speed is too slow for the selected gear.
- The transmission will not automatically upshift when the engine’s maximum rpm is reached.
- The transmission will only shift up or down if a valid gear is selected.
- If a non-valid gear is selected, the transmission will not shift up or down and only the last valid gear is shown instrument panel centre display.

Turning off Active Select mode

To turn off the Active Select mode, press the A/S button again or by moving the automatic transmission gear selector out of D (Drive).

The ‘Active Select Off’ animation is displayed for 2 seconds in the instrument panel centre display and the transmission returns to previous shift mode (Power or Normal).



L150R195

AUTOMATIC TRANSMISSION cont.

Four-Speed

P (park)	This prevents the rear wheels from turning and so should be selected (together with the park brake) when leaving the vehicle. Never select P while the vehicle is still moving. The engine can be started in this position.
R (reverse)	Never select R while the vehicle is still moving. Reverse lights will illuminate when R is selected and the ignition is on. After reversing, make sure the vehicle has fully stopped before selecting another gear position. After selecting R, pause for a moment before accelerating, to allow the transmission to 'engage' reverse gear.
N (neutral)	This is the out-of-gear position. You may then start a stalled engine while the vehicle is still moving or stopped.
D (drive)	This gear is most effective for normal or freeway driving. The drive position gives maximum fuel efficiency, as the transmission can choose the appropriate gear (1 through to 4) for the existing load and driving conditions. After selecting D from P or N, pause for a moment before accelerating, to allow the transmission to 'engage' the forward gear. Use this position, together with the PWR mode when towing.
3 (third)	Third gear is most effective when overtaking and gives responsive acceleration and deceleration, especially in hilly areas. This position allows the transmission to shift between first, second and third gear as conditions require. Drive (4th gear) is excluded.
2 (second)	Use this position when going down a moderate gradient where you want to slow down a little with minimal use of the brakes. The transmission shifts to first or second gear as required. Move the lever back into the drive position to return to normal driving.
1 (first)	Use this position when a strong braking effect is needed on a steep gradient, below 60 km/h. Even though the transmission gear selector may be in 1, the transmission does not select first gear until vehicle speed is less that 55 km/h. Take extreme care when selecting 1 if towing a trailer or caravan on a steep incline. Even though the transmission gear selector may be in 1, the transmission shifts up automatically to second gear above a specified engine speed. Move the lever back to drive position so that the transmission again shifts up into higher gears.

AUTOMATIC TRANSMISSION cont.

Five-speed

P (park)	This prevents the rear wheels from turning and so should be selected (along with the park brake) when leaving the vehicle. Never select P while the vehicle is moving. The engine can be started in this position.
R (reverse)	Never select R while the vehicle is still moving. Reverse lights illuminate when R is selected and the ignition is on. After reversing, make sure the vehicle is stationary before selecting another gear position. After selecting R, pause for a moment before accelerating, to allow the transmission to 'engage' reverse gear.
N (neutral)	This is the out-of-gear position. When in Neutral you can then start a stalled engine while the vehicle is still moving or stationary.
D (drive)	This gear is most effective for normal or freeway driving. The drive position gives maximum fuel efficiency, as the transmission can choose the appropriate gear (1 through to 5) for the existing load and driving conditions. After selecting D from P or N, pause for a moment before accelerating, to allow the transmission to 'engage' the forward gear.
4 (fourth)	Use this position when towing a trailer, driving on hilly terrain or when engine braking on slight descending grades. Fourth gear allows the transmission to shift between first, second, third and fourth as conditions require. Drive (5th gear) is excluded.
3 (third)	Third gear is most effective when overtaking and gives responsive acceleration and deceleration, especially in hilly areas. This position allows the transmission to shift between first, second and third gear as conditions require. Fourth and Drive (5th gear) are excluded.
L (low)	Low gear can only be selected using the transmission gear selector. Low gear automatically shifts between first and second gear as required. **Note:** First and second gears can only be selected independently in Active Select mode using the steering wheel mounted + / – shift paddles. Use Active Select to select 1st or 2nd when descending a steep hill while towing for optimum engine braking. **2** (second) Use this position when going down a moderate gradient where you want to slow down a little with minimal use of the brakes. The transmission shifts to first or second gear as required. Move the transmission gear selector back into the drive position to return to normal driving. **1** (first) Use this position when a strong braking effect is needed on a steep gradient, below 60 km/h. Even though the transmission gear selector may be in 1, the transmission does not select first gear until vehicle speed is less that 55 km/h. Take extreme care when selecting 1 if towing a trailer or caravan on a steep incline. Even though the transmission gear selector may be in 1, the transmission shifts up automatically to second gear above a specified engine speed. Move the transmission gear selector back into the drive position to return to normal driving.

ANTI-LOCK BRAKE SYSTEM

Monitoring

The Anti-lock Brake System (ABS) works in addition to the vehicle’s normal brake system. It continuously monitors the vehicle’s braking system and prevents the wheels from locking up when braking, irrespective of the road conditions and tyre grip. It starts to regulate the braking as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even in the event of panic braking, for instance on bends or when swerving to avoid an obstacle.

Maximum braking is provided for each wheel up to the point where it would lock. In this case steering control is retained.

WARNING:

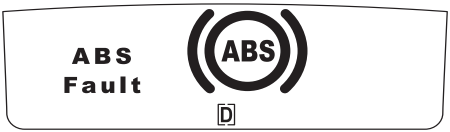
Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. The vehicle’s speed should always be adjusted to suit road and traffic conditions.

Operation

When active, ABS operation is noticable by pulsing of the brake pedal and the noise of the regulation process. To achieve optimum braking, keep the brake pedal pressed fully throughout the braking process. Use this as a reminder to match the vehicle’s speed to the road conditions, even though ABS is keeping control of the braking.

In an emergency braking situation, keep full force on the brake pedal without pumping it. Pumping the brake pedal can reduce brake efficiency when ABS is controlling the braking.

The instrument panel provides an ABS (ABS off) warning light below the temperature gauge and an 'ABS Fault' animation on the centre display. To check that the bulb is working, the ABS warning light illuminates for a few seconds when the ignition is turned on.



If the ABS warning light and 'ABS Fault' animation illuminate when driving, a malfunction of the Anti-lock Brake System is indicated. The vehicle's brake system still remains operational, but without ABS assistance. Have your Holden Dealer check the system as soon as possible.

The 'ABS Fault' animation is displayed until the MODE button on the trip computer switch is pressed. Whereas, the ABS warning light remains illuminated until the problem is rectified.

The ABS performs a self check each time the vehicle is driven. This can sometimes be heard as well as felt, as pulsing through the brake pedal.

TRACTION CONTROL (if fitted)

Monitoring

The Traction Control System (TCS) helps prevent the driving wheels (rear) from spinning irrespective of the road conditions and tyre grip. As soon as even one driving wheel starts to spin the TCS reduces the power from the engine and applies the brakes to the spinning wheel, as necessary. This can improve the vehicle's steering control and driving power, particularly on snow and ice, as well as on wet or slippery roads.

TCS helps you to keep control of the vehicle and reminds you to match the vehicle’s speed to the road conditions.

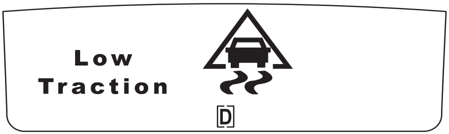
WARNING:

Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style.

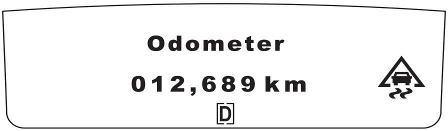
Operation

The 'Low Traction' animation on the instrument panel centre display illuminates when traction control is controlling wheel spin, indicating that the vehicle is now in a critical situation.

The 'Low Traction' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small low traction ⚠ icon on the right. The ⚠ icon remains as long as the low traction situation exits.



L150R065



L150R066

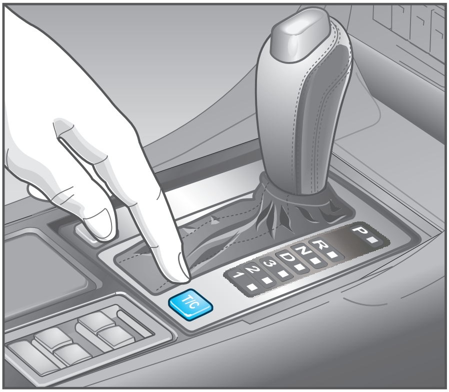
Note: If the ‘Traction Ctrl Off’ animation illuminates while driving, a fault is indicated in the system as the TCS is no longer operational. Have your Holden Dealer check the system as soon as possible.

The TCS is automatically turned on whenever the ignition is turned on.

Switch off TCS

The TCS can be switched off manually by the button labelled T/C.

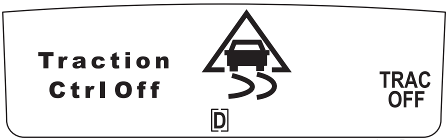
The T/C button is located on the driver’s side of the centre console, as illustrated.



L150R172

TRACTION CONTROL (if fitted) cont.

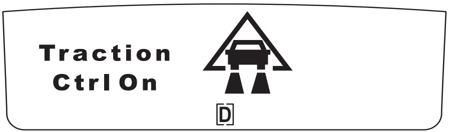
Pressing the T/C button switches the system off and illuminates the 'Traction Ctrl Off' animated display. After 2 seconds, the animation reverts to the original trip computer display with a small **TRAC OFF** icon on the right.



L150R067

Note: If the 'Traction Ctrl Off' animation does not illuminate when the T/C button is pressed, a fault is indicated in the system and traction control may be no longer operational. Have your Holden Dealer check the system as soon as possible.

Pressing the T/C button again switches the system on and illuminates 'Traction Ctrl On' animated display. After 2 seconds, the animation reverts to the original trip computer display.



L150R069

In certain circumstances, it may be helpful to disable the traction control system. For example, in some circumstances, particularly on steep gravel inclines, or if the vehicle is bogged, it may be possible to get more traction from a slightly spinning wheel.

In addition, whenever snow chains are fitted, the traction control system should be turned off. This is achieved by pressing the T/C button. The 'Traction Ctrl Off' animation then illuminates to show that traction control is no longer operational. After 2 seconds the animated symbol then reverts to the original trip computer display with a small **TRAC OFF** icon on the right. The system can be switched on again by pressing the T/C button or when the ignition is next turned on.

WARNING:

LPG and Traction Control are incompatible. If the vehicle is fitted with a Holden approved LPG system, by Holden or by a Holden authorised LPG fitter then Traction Control will automatically be switched off when the vehicle is running on LPG, indicated by the TRAC OFF light on the instrument panel illuminating.

ELECTRONIC STABILITY PROGRAM (if fitted)

Monitoring

The Electronic Stability Program (ESP), is an advanced feature that works in conjunction with the vehicle's Anti-lock Braking System (ABS), Traction Control System (TCS). When required, the ESP improves driving stability in any driving situation, regardless of the road surface or tyre grip.

ESP monitors the vehicle movements. As soon as the vehicle starts to swerve (understeer / oversteer), engine output is reduced (the sound of the engine changes) and individual wheels are specifically braked. This helps improve the vehicle driving stability, especially on wet or slippery road surfaces. ESP helps you to keep control of the vehicle and reminds you to match the vehicle's speed to the road conditions.

Electronic Brake Assist system is incorporated in the ESP unit and detects when the driver is applying the brakes in a panic stop situation, by recognising how rapidly the accelerator is released and the brake pedal is applied. The EBA initiates ABS earlier shortening the stopping distance required.

WARNING:

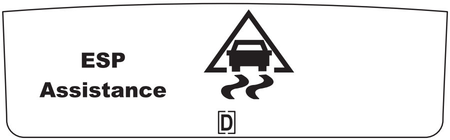
Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. The vehicle's speed should always be adjusted to suit road and traffic conditions.

Operation

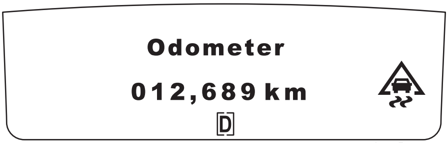
ESP is automatically switched on when the ignition is turned on.

The 'ESP Assistance' animation on the instrument panel centre display illuminates when the ESP has sensed that a low stability event is occurring and the ESP is assisting the vehicle to maintain stability.

The 'ESP Assistance' animation displays until the MODE button on the trip computer switch is pressed. The animated symbol then reverts to the original trip computer display with a small ESP assistance ⚠ icon on the right. The ⚠ icon remains illuminated as long as the low stability situation exists.



L150R125

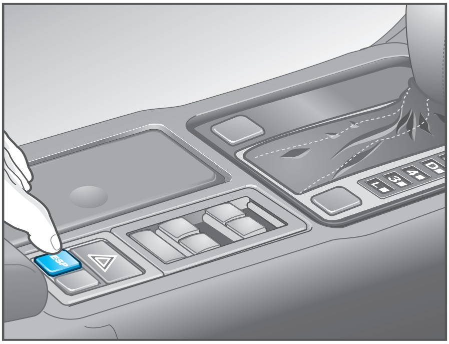


L150R066

Switch off ESP

The ESP can be switched off manually via the button labelled ESP.

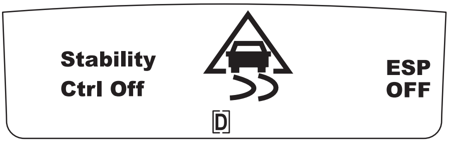
The ESP button is located on the driver's side of the centre console, as illustrated.



L150R173

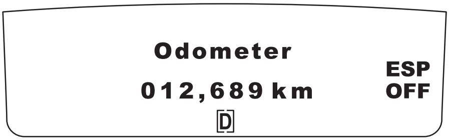
ELECTRONIC STABILITY PROGRAM (if fitted) cont.

Pressing the ESP button switches the system off, bringing up the 'Stability Ctrl Off' animated display.



L150R123

After 2 seconds, the animation reverts to the original trip computer display with a small **ESP OFF** icon on the right.

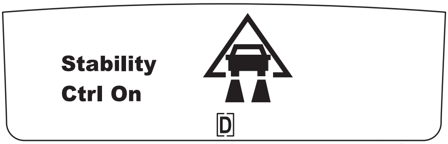


L150R122

Note: If the 'Stability Ctrl Off' does not illuminate when the button is pressed, or the animation illuminates while driving (without the ESP being turned off by the driver), it indicates that the ESP system is not working. The **ESP OFF** icon remains illuminated until the problem is rectified. Contact your Holden Dealer.

ABS remains active at all times, even when the ESP system is turned off.

Pressing the ESP button again switches the system on, bringing up the 'Stability Ctrl On' animated display. After 2 seconds, the animation reverts to the original trip computer display.



L150R124

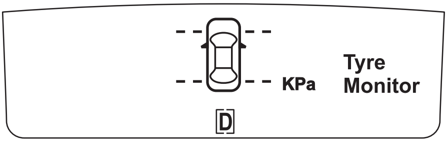
TYRE PRESSURE MONITORING SYSTEM (if fitted)

The Tyre Pressure Monitoring System (TPMS) continuously monitors the pressure in all four tyres while the vehicle is moving. The individual tyre pressure information is displayed on the instrument panel centre display. When the TPMS display is selected by scrolling the MODE button on the trip computer, (the TPMS must be enabled before it can operate, for more information refer to the 'Options Menu' in Chapter 1), it remains illuminated until the MODE button is pressed again, or is overridden by a warning indication. The TPMS does not display the tyre pressure information until the vehicle has been driven above 30 km/h.

Note: Correct inflation of tyres to recommended specifications prevents low pressure warning indications.

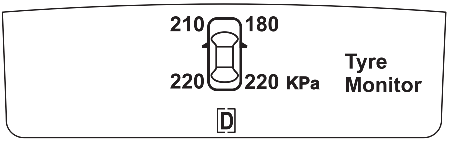
Tyre monitor display

When the vehicle is started and the tyre pressure monitor display is enabled, it does not recognise any of the four wheel sensors until the vehicle begins to move. The 'Tyre Monitor' animation displays two dashes.



L150R147

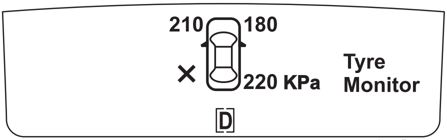
Once the vehicle is moving, the dashes change to a tyre pressure reading until the vehicle is turned (keyed) off. This sequence occurs each time the vehicle is turned on.



L150R145

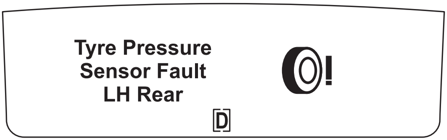
Tyre pressure sensor fault

If the 'Tyre Pressure Sensor Fault...' animation illuminates while driving, the 'Tyre Monitor' animation displays the tyre pressure sensor fault.



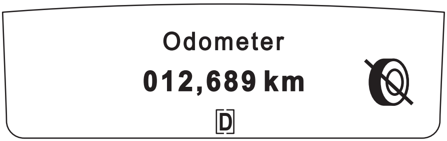
L150R146

A 'Tyre Pressure Sensor Fault...' animation illuminates indicating the fault.



L150R143

The 'Tyre Pressure Sensor Fault...' animation displays until the MODE button on the trip computer switch is pressed. The trip computer then reverts to the original trip computer display with a small tyre pressure sensor fault icon on the right. The icon remains illuminated until the problem is rectified.



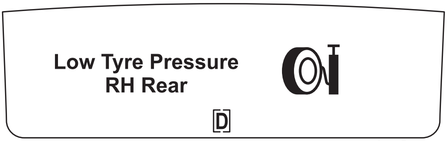
L150R144

TYRE PRESSURE MONITORING SYSTEM (if fitted) cont.

Tyre pressure warning

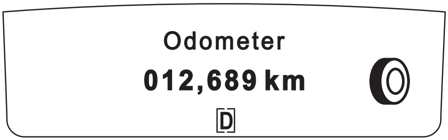
Note: The default measurement setting for the TPMS is KPa.

If the 'Low Tyre Pressure...' animation illuminates when driving it indicates that the inflation pressure in the tyre(s) is low.



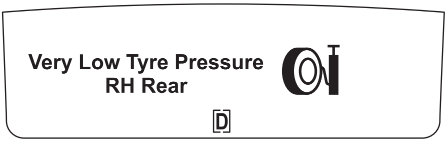
L150R139

The 'Low Tyre Pressure...' animation displays until the MODE button on the trip computer is pressed. The trip computer then reverts to the original trip computer display with a small low tyre pressure icon on the right. The icon remains illuminated until the tyre is inflated to within a specified range recommended for the tyre fitted to the vehicle.



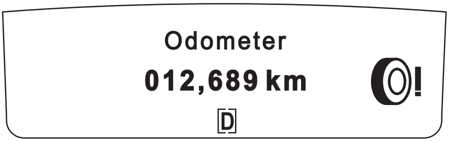
L150R140

If the 'Very Low Tyre Pressure...' animation illuminates when driving, it indicates that the inflation pressure in the tyre(s) is very low. The tyre should be inflated to the correct pressure as soon as possible.



L150R141

The 'Very Low Tyre Pressure...' animation displays until the MODE button on the trip computer is pressed. The trip computer then reverts to the original trip computer display with a small very low tyre pressure icon on the right. The icon remains illuminated until the tyre is inflated to within a specified range recommended for the tyre fitted to the vehicle.



L150R142

Note:

- If TPMS is fitted, the spare wheel has a sensor installed and will be auto recognised, along with its position on the vehicle if it is swapped for one of the four wheels.
- If the tyres are replaced, it is necessary to put each wheel back on the same axle from which it was removed otherwise the TPMS will need to be reset by your Holden Dealer.
- If the tyres need to be rotated, the new wheel sensor locations need to be programmed. Contact your Holden Dealer or an authorised tyre dealer to have the tyres rotated. Refer to 'Flat Tyre' in Chapter 6 and 'Tyres' in Chapter 7.

DRIVING PRECAUTIONS

Running-in

There is no need to follow a formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving greatly assists the vehicle's future performance and economy.

For the first 500 kilometres avoid using heavy acceleration.

Up to 1500 kilometres avoid driving at any one speed, either slow or fast, for any length of time. Therefore, avoid using the cruise control while running-in. However, include some higher speeds during this period. Always drive at moderate speed until the engine has completely warmed up.

It is best to drive your new vehicle for 1500 km before towing a load. If you must tow before this do not exceed 80 km/h. The same applies if the vehicle has a new or reconditioned engine, transmission or rear axle.

Engine misfire

Reduce speed and do not tow a caravan or trailer until the misfiring is corrected at the nearest Holden Dealer. Otherwise, the catalytic converter and exhaust system may overheat, resulting in vehicle damage.

Brakes

The power assisted brakes fitted to the vehicle use vacuum from the engine when it is running. Therefore, never let the vehicle run down hills with the engine off, or coast after switching the engine off.

Position your seat so that you can push the brake pedal easily. Nothing should be under the brake pedal which could limit pedal travel, for instance, poorly fitting floor mats.

Consistent, heavy use will shorten the life of the brake pads.

Power steering

The power assisted steering fitted to the vehicle has been designed to reduce steering effort. Take care not to hold the steering wheel fully turned when stationary (for example, when waiting before turning a corner) as this creates high operating temperatures and pressures within the system.

If power steering is not working, due to the engine stalling for example, the vehicle can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

Loading the vehicle

Loading the vehicle changes the mass distribution and therefore the handling when driving. After loading the vehicle, take extra care to become familiar with the vehicle's driving feel. Refer to Chapter 10, Tow and load.

DRIVING PRECAUTIONS cont.

Loose articles

Do not leave loose articles or luggage in the passenger compartment. Whenever possible, stow articles in the luggage compartment.

WARNING:

Gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around, and where possible, placed in the load area of the vehicle. It is recommended that if gas cylinders are frequently transported that a purpose-built carrying compartment be used. Transportation of gas cylinders is regulated by legislation in some states.

Mobile phones and CB radios

Mobile phones and CB radio equipment, which use an integrated antenna, may temporarily affect the vehicle's electronics (permanent damage is unlikely) when used inside the vehicle, due to the interference created when transmitting.

Therefore, mobile phones and CB equipment that use an antenna fitted to the outside of the vehicle should be used whenever possible.

If using mobile phones or CBs with an integrated antenna inside the vehicle, avoid using near the dashboard area, as some functions may be affected.

Water crossing

Before crossing water it is recommended that the air conditioning be switched off.

Crossing deep water could damage the engine. It is recommended that the water depth be no more than 175 mm and speed be limited to a walking pace. Brakes may then need drying out; lightly apply the brakes while maintaining a slow forward speed, with a clear area ahead, until brake performance returns to normal.

Tyre grip

A decrease in tyre grip occurs when water, snow, ice, gravel or other materials are on the road. Driving speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of grip, which affects steering and braking. To reduce the possibility of hydroplaning:

- Reduce speeds during rainstorms.
- Replace tyres when tread wear indicators are visible.
- Regularly check that tyres are properly inflated.

ADD ON EQUIPMENT

Snow chains

Due to lack of clearance, snow chains cannot be fitted to vehicles equipped with the following wheel and tyre configurations:

225 / 50 R17 94V	17 x 8
235 / 45 R17 93V	17 x 8

If these vehicles need to be driven in the snow, the owner should consider changing to the following wheel and tyre configuration:

225 / 55 R16 95V	16 x 7

Snow chains should be fitted only on the rear (drive) wheels.

Depending on design, large hub caps may contact parts of the chain. If so, remove the hub caps. Any valve extensions should also be removed.

Snow chains may only be used at speeds up to 50 km/h. Snow chains should only be used for short distances if the roads are not snow covered. The hard road surface causes rapid wear and the chain may break. Snow chain links should not be thicker than 13 mm and the clasp should be well away from the bodywork. Thicker chains may damage the vehicle body.

Ensure that tyre pressures are as recommended on the tyre placard. Refer to ‘Tyres’ in Chapter 7.

Mud flaps

Mud flaps should be fitted if the vehicle is driven extensively on unsealed roads.

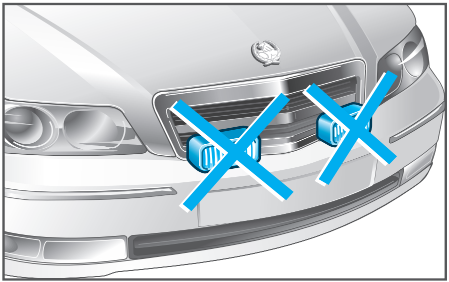
Note: Take care when reversing to avoid trapping a mudflap between a tyre and a gutter.

Fitting driving lights, insect screens

When fitting these accessories be careful not to restrict air flow otherwise engine overheating and / or poor air conditioning performance may result.

Nothing should be fitted over the upper or lower air intakes at the front of the vehicle, as this could affect engine cooling.

Note: Fitting driving lights or insect screens may interfere with the operation of the front senses of the Dual Park Assist (if fitted). Contact your Holden Dealer.



ADD ON EQUIPMENT cont.

Fitting roo bars

If a roo bar is to be fitted, it is critical that the Holden approved roo bar be used. Other types ***must not*** be fitted. The Holden roo bar is available from your Holden Dealer and has been compatibility tested with the vehicle's design, including the Holden airbag system.

Fitting other types of roo bars may affect crash performance, airbag performance and engine cooling.

Roo bars should not be fitted to vehicles operating in suburban areas, as they increase the risk of injury to a pedestrian in the event of a collision. Roo bars are only recommended for country / outback areas, where additional protection from straying animals is required. Please remember that defensive driving and limiting driving speed to the road conditions is always the best approach, particularly where road side signs indicate wildlife is abundant.

CHAPTER 5

Fuel

Page

5-2 Fuel
5-4 Emission control
5-5 Reducing fuel consumption

WARNING:
The vehicle's engine has not been designed for conversion to LPG. The performance and safety of the vehicle would be seriously jeopardised if converted to LPG.

FUEL

EXHAUST WARNING – CARBON MONOXIDE POISONING:

Exhaust gases can produce carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your vehicle is faulty.

To protect against exhaust gases entering the vehicle, the exhaust system and body should be inspected:

- each time the vehicle is serviced,
- whenever a change is noticed in the sound of the exhaust system,
- whenever the exhaust system, underbody or rear of the vehicle is damaged.

Take the vehicle to your Holden Dealer if you think your vehicle needs inspecting for any of the above reasons.

Do not sit (or leave children or pets) in a parked vehicle for any extended period of time with the engine running. Do not run the engine in an enclosed area (such as the garage) any longer than is needed to move the vehicle.

Driving with the boot open is not recommended. If you must travel with the boot open, close all windows, ensure that the heater controls are set to outside (rather than recirculate) with air directed to the face and the fan on the highest speed. Do not exceed 50 km/h.

FUEL WARNING:

- Fuel is extremely flammable and highly explosive.
- Always turn off the engine of your vehicle and any mobile phones when refuelling.
- Do not smoke or allow open flames or sparks near the vehicle when refuelling.
- If fuel fumes are smelt while driving, the cause should be found and corrected without delay by your Holden Dealer.

WARNING – FUEL ADDITIVES:

Various additives are used in the formulation of good quality fuel and the use of supplementary additives in fuel is not required unless specified by Holden. Under no circumstances should fuel containing the manganese additive known as MMT (methyl cyclopentadienyl manganese tricarbonyl) be used, as this additive is known to cause contamination of catalytic converters, spark plugs and the malfunction of On-Board-Diagnostic (OBD) systems (where fitted). The use of fuel additives that are not recommended by Holden may affect your New Vehicle Warranty to the extent that Holden considers that the additives affect the specifications and quality of your vehicle.

WARNING – USE OF FUEL CONTAINING ETHANOL:

When purchasing such fuel, we recommend that the vehicle be operated on fuel containing no more than 10% ethanol. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 10% ethanol or fuel which contains abnormal fuel properties. Under no circumstances should you use fuel containing more than 10% ethanol. Use of such fuels may result in engine malfunction, starting and operating difficulties, and materials degradation. These adverse effects could result in permanent damage to your vehicle and personal injury. It is also important to note that when ethanol blends are used, fuel consumption can be expected to increase due to the lower energy content of ethanol.

The use of any fuel, other than the fuel specified on the following page, may seriously damage your vehicle and may void the warranty. Only clean fuel of good quality should be used. The use of fuel containing more than 10% ethanol may also affect your New Vehicle Warranty to the extent that Holden considers that the fuel affects the specifications and quality of your vehicle.

FUEL cont.

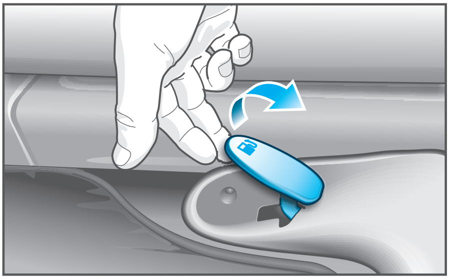
Fuel – general

Always fill the fuel tank at the intermediate or fast fill rate. Do not add any more fuel after the fuel filler first clicks off or fuel blows back – this allows room for the fuel to expand inside the tank. Only trickle-fill fuel tanks when the vehicle is to be driven for more than 50 km immediately after the tank is filled. However, this is not recommended on days over 30°C.

Wipe off any overflowing fuel immediately from the vehicle; spray or splash with water (replace the fuel cap and close the fuel opening before spraying with water).

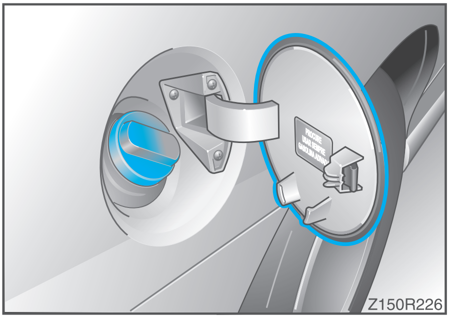
Fuel filler flap release

Pull up the release lever on the floor (to the right of the driver's seat) to release the fuel flap.



Z150R285

Open the fuel flap from outside the vehicle, on the right-hand side, to access the fuel cap.



Z150R226

Fuel cap

The fuel cap, under the fuel flap, is a screw-on ratchet type. After refilling, tighten the cap clockwise until a clicking noise is heard and then close the fuel flap.

Tank capacity

Refer to Chapter 8, Specifications, for information on fuel tank capacity.

Fuel type

Use unleaded petrol of regular 91 Research Octane Number (RON) rating or higher. Use of Premium unleaded petrol (95 RON or higher) may provide a small improvement in performance and fuel economy.

LPG conversion

WARNING:

The vehicle's engine has not been designed for conversion to LPG. The performance and safety of the vehicle would be seriously jeopardised if converted to LPG.

EMISSION CONTROL

The vehicle is fitted with emission control systems, which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions, contribute to photochemical smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

The three major emission control systems that may be fitted to the vehicle are:

1. **Evaporative Emission Control System**

   This system is designed to prevent the escape of fuel vapour from the fuel system and recycle the vapours through the normal combustion process.

2. **Crankcase Emission Control System**

   This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.

3. **Exhaust Emission Control System**

   The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust Emission Control System is comprised of components including electronic control of spark, fuel and idle speed. In addition, some vehicles have a catalytic converter and closed loop mixture control system.

For detailed information on the operation, servicing and repair procedures for these systems, refer to the vehicle's service booklet and / or the emission label inside the engine compartment of the vehicle.

Owner responsibility

The engine, engine control system or exhaust system of the vehicle must NOT be modified in any way. Any change to the design may increase the emissions or otherwise defeat the intent of the regulations.

WARNING:

Any person who removes, modifies or hinders any part of the emission control system may be contravening Australian Design Rules, refer A.D.R. 28/01 (External Noise for Motor Vehicles) and A.D.R. 79/00 (Emission Control for Light Vehicles, ‘Euro 2’). It is also illegal to drive a vehicle modified in this way.

Maintenance requirements

To ensure continuing compliance with the regulations you must maintain the vehicle’s emission control system as per the vehicle's service booklet, at the frequency shown in the Maintenance Schedule of the vehicle's service booklet which is stored inside the vehicle’s glovebox.

It is recommended that the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

REDUCING FUEL CONSUMPTION

Engine

To keep the engine in peak mechanical condition, have it serviced regularly in accordance with the Maintenance Schedule of the vehicle's service booklet which is stored inside the vehicle’s glovebox. This ensures items such as the spark plugs, air cleaner and engine idle speed are maintained for minimum fuel usage and peak engine performance.

Tyre pressure

Keep the tyres at the recommended pressures. Under-inflated tyres create extra rolling resistance which contributes to increased fuel consumption. Refer to ‘Tyres’ in Chapter 7.

Incorrect tyre pressures can also cause uneven and premature tyre wear.

Wheel alignment

Maintain correct front and rear wheel alignment. Incorrect alignment makes the wheels drag, which increases fuel consumption and causes uneven and premature tyre wear.

Warm ups and idling

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately 5 minutes to reach its efficient operating temperature and it does this most effectively when driving.

Avoid long engine idling. If you have to wait for more than a couple of minutes turn off the engine to conserve fuel.

Accelerating, driving and braking

Accelerate gently and avoid rapid starts. Sudden bursts of speed, full throttle acceleration and hard braking waste fuel.

Drive the vehicle at steady speeds where possible (after running-in).

MANUAL TRANSMISSION: It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

Riding the brake

Do not rest your foot on the brake pedal when you do not intend to brake, as this can overheat the brakes, increase brake pad wear, damage the brakes and waste fuel.

Air conditioning

Turn off the air conditioner when not required. However, once every 2 weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes to lubricate seals (even in winter).

CHAPTER 6

Emergencies

Page
6-2 Accidents
Being involved
Being a witness
Medical assistance
6-4 First aid kit and accessory kit
6-5 Safety triangle
6-6 Flat tyre
6-12 Fuses
6-14 Towing a disabled vehicle
6-15 Engine overheating
6-17 Flat battery
6-19 Airbags
6-22 Bulb replacement

ACCIDENTS

All drivers are advised to learn what to do at the scene of an accident, particularly where people are injured. Injured people can choke to death if their air passages are not cleared, they can bleed to death unless the bleeding is stopped, they may require mouth-to-mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damage to an injured neck, back or broken limbs. In all cases, ensure safety for rescuers, victims and bystanders. The following notes may help.

Accident – being involved

If you are involved in an accident, you are advised to do as follows:

- Stop immediately and remember to turn off the engine and apply the park brake.
- Remember that time is vital. Remain calm and alert. Think quickly and clearly.
- Give all possible assistance to all injured persons. Refer to page 6-3, 'Medical assistance'.
- Send for police and ambulance if anyone has been injured. Give information as accurately as possible: the exact location, the number of injured people and a brief report on the overall situation.
- Warn all other traffic approaching the scene. Some models of vehicle are provided with a safety triangle which can be erected ahead of the scene of an accident to warn approaching traffic.
- Turn off ignition switches. Do not use flammable items. Stop any smoking and mobile phone use near spilt petrol. In darkness, try to light up the area to warn others – use hazard lights, a torch or headlights.
- Clear the road of accident debris.
- Exchange your name, address, vehicle registration, owner's name and address with the other parties involved in the accident.
- If damage to property only has occurred, report the facts to the owner of the damaged property or to their representative, to any police present at the scene of the accident, or to the nearest Police Station.
- Try to note all important facts because such details may be needed to support any official enquiries made at a later date.

Accident – being a witness

If you witness a road accident or it becomes your task to stop and help:

- Keep in mind that an observant witness can prove most helpful.
- DO NOT stop at the scene of an accident just to be a spectator. If other people are already in attendance and giving assistance, you should only stop if you can contribute assistance.
- Give what assistance you can to any injured persons. Refer to page 6-3.

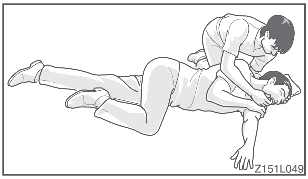
ACCIDENTS cont.

Medical assistance

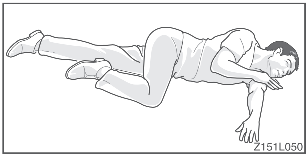
This information is intended only as a guide to basic first aid and may not be applicable in all situations. You should always defer to a trained medical officer or other person with first aid knowledge. Protective equipment, such as rubber gloves are recommended.

Keep calm and think clearly. Your experience may be limited but do your best to assist.

- Look after any unconscious people first. Check their airway, breathing and circulation. If they are not breathing, check if their air passages are clear, for example, nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.
- You must be very careful when moving an injured person. It is best not to move them at all, except if they are in immediate danger. Serious and permanent damage can be caused to an injured neck or back if not supported correctly during movement. AVOID BENDING OR TWISTING A NECK OR BACK. KEEP THEM STRAIGHT. Injured limbs also require support when an injured person has to be moved.
    - Unconscious people can choke.
    - Carefully turn them onto one side.
    - Tilt their head back slightly.
    - Wipe out their mouth with your finger to remove any obstructions such as blood, vomit, broken teeth or dentures.



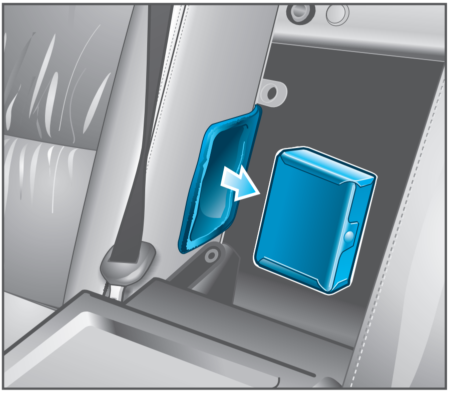
- Provided it is not dangerous to do so because of other injuries, an unconscious person is best placed in the position illustrated here.
    - Lay the person on one side, if it will not aggravate any injuries.
    - Bend the uppermost knee until the thigh is at a right angle to the body.
    - Bend the uppermost arm and elbow so that the hand rests near the face.
    - Gently pull the underneath arm so that it rests straight on the ground, free of any body weight.



- Try to stop bleeding by applying direct pressure to the wound using your hand, or by pressing torn flesh together. Fold any clean cloths or bandages available to make pads. If necessary press one pad on top of another. Continue to apply pressure around edges of a wound BUT NEVER USE A TOURNIQUET.
- Shock may be treated by reassuring the injured person, relieving pain, controlling any bleeding and keeping them warm but not hot. It is best not to give any fluids to an injured person and NEVER ALCOHOL.
- If the injured person is in danger and has to be moved, try to have three or four people to help and concentrate on not bending or twisting the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

FIRST AID KIT AND ACCESSORY KIT

First aid kit



L151L023

A first aid kit is stored in a cavity in the rear seat. To access the first aid kit, fold down the middle section of the rear seat (by pressing the lock button at the top of the middle section, refer also to Chapter 3), then pull out the first aid kit, as shown.

WARNING:

Remember to return the first aid kit to its housing in the rear seat after use, so that it may be easily retrieved as required.

The first aid kit is equipped with assorted dressings and bandages, tweezers, scissors, safety pins, alcohol swabs and disposable hand towels.

An inventory list is provided with the first aid kit, detailing its original contents. The contents of your first aid kit should be checked against the original inventory and replenished as necessary.

Accessory kit (if fitted)

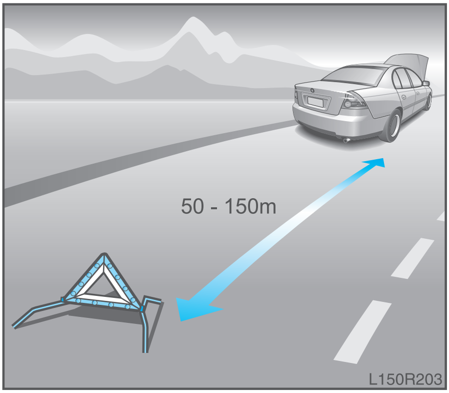
An accessory kit is provided on the higher luxury model vehicles. The kit is located in the boot, under the spare wheel cover, next to the spare wheel. The kit contains:

- A chamois for cleaning your vehicle.
- A knee mat to kneel on while changing a wheel.
- Gloves to wear while changing a wheel.

SAFETY TRIANGLE

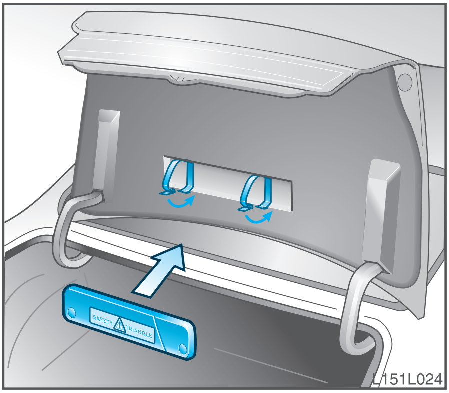
The vehicle is provided with a reflective safety triangle which can be erected to warn other road users that they are approaching a hazard such as a traffic accident, broken down vehicle or debris on the roadway.

The safety triangle should be positioned on the shoulder of the roadway, approximately 50 – 150 metres ahead of the hazard to ensure that approaching drivers have an opportunity to slow their vehicle or take evasive action as necessary.



The safety triangle is stored in a special container inside the boot and is held in place with quick release straps to the boot lid trim.

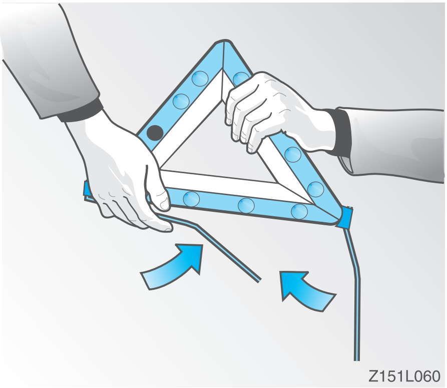
To use the safety triangle, retrieve it from its housing by releasing the straps and removing the safety triangle container.



Remove the safety triangle from its container and erect it as follows:

1. Fold the outer arms of the triangle upward and clip them together at the top to form an apex.
2. Fold each of the four legs outward from the horizontal section of the triangle to the full extent of their range.

After use, the triangle should be folded, placed in its container and secured in its storage position (as above) using the straps provided.



FLAT TYRE

WARNING:

- Use the jack only for lifting the vehicle when changing wheels.
- Never get beneath the vehicle when it is only supported by the jack.
- Do not start or run the engine while the vehicle is only supported by the jack.
- All passengers should be out of the vehicle when it is being jacked.
- Use the jack only at the designated lifting points. Use in other locations may result in the vehicle falling off the jack, or damage the body of the vehicle.
- If using a jack (or hoist) other than the jack supplied with the vehicle, refer to Chapter 7 for the correct lifting positions.
- Only jack the vehicle on hard, level surfaces.
- Vehicles with alloy wheels may have a steel spare wheel fitted. Drive carefully and do not exceed 80 km/h when a combination of alloy and steel wheels are fitted on the vehicle. Have the flat tyre repaired and installed back on to the vehicle as soon as possible.

One-direction (unidirectional) tyres

Some model vehicles may be fitted with unidirectional tyres, indicated by arrows on the tyre wall showing the direction it is designed to rotate when the vehicle is moving forward. If the tyres are marked with arrows, the tyres on the left-hand side of the vehicle show the arrow pointing anticlockwise, and those on the right-hand side show the arrow pointing clockwise.

Wherever possible, replace unidirectional tyres with a tyre of the correct orientation. In the event of a flat tyre emergency, a unidirectional tyre may be fitted to the wrong side of the vehicle or a multidirectional tyre used temporarily. However, the flat tyre should be repaired and installed back on to the vehicle as soon as possible.

WARNING:

Drive carefully, particularly in wet conditions, and do not exceed 80 km/h when an incorrectly placed unidirectional tyre or a combination of unidirectional and multidirectional tyres are fitted to the vehicle. The flat tyre should be repaired and installed back on to the vehicle as soon as possible.

Temporary spare wheel

WARNING:

The temporary spare wheel is for emergency spare use only; drive carefully and do not exceed 80 km/h when the wheel is fitted on the vehicle. The vehicle's handling and braking capabilities are reduced when the temporary spare wheel is fitted. Only one temporary spare can be used on the vehicle at the one time. The flat tyre should be repaired and refitted to the vehicle as soon as possible.

The temporary spare wheel must have a maximum load rating of at least 690 kg, or a load index of 95, and a speed category symbol of at least H.

Temporary spare wheel and tyre specification:

RIM SIZE	TYRE SIZE	TYRE INFLATION PRESSURE
15 X 6 J	P205 / 65R15 95H	280 kPa (41 psi)

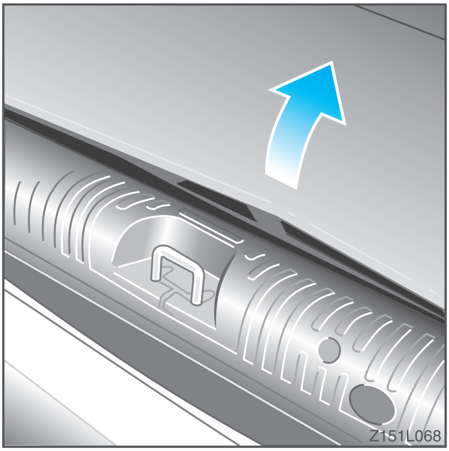
FLAT TYRE cont.

1. Park on a hard, level surface, in a safe location, and set the park brake firmly. Turn the hazard warning flashers on.

2. Remove the ignition key and place the automatic transmission in Park.

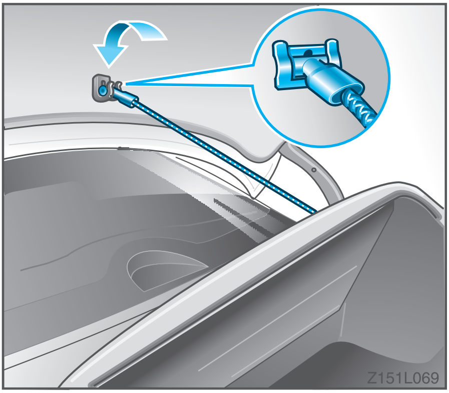
3. Locate the spare wheel, jack and combination jack handle / wheel wrench. The spare wheel is stored in a compartment in the floor of the boot.

4. Open the boot, grip the edge of the spare wheel cover and pull it up.



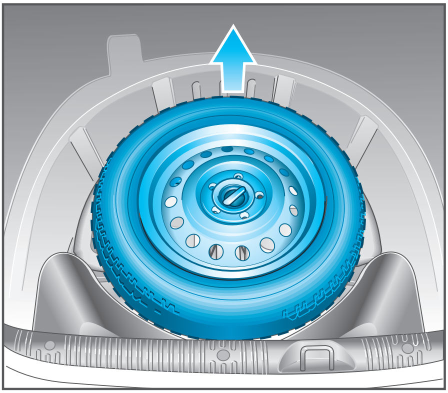
The spare wheel cover can be secured out of the way. An extendable strap is provided in the centre of the rear edge of the spare wheel cover. Pull up the T-piece and attach it to the boot, as shown.

Note: Remember to unhook the strap before closing the boot.



FLAT TYRE cont.

5. Undo the retainer in the centre of the spare wheel anticlockwise and lift the wheel out of the vehicle.



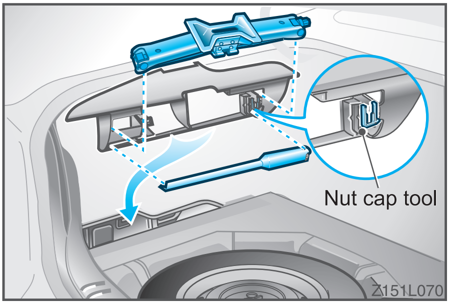
L150R204

The tools are stored in a special container in the floor, which is also under the spare wheel cover.

The container pulls out of the storage compartment in the floor to allow access to the jack, combination jack handle / wheel wrench and nut cap tool.

Remove the jack and combination jack handle / wheel wrench by lifting the clips that secure them and sliding them out of the container.

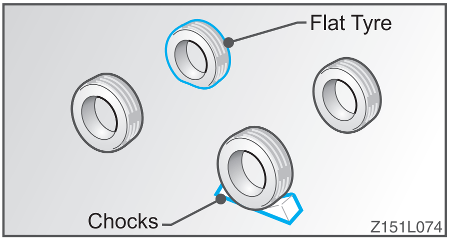
If your vehicle is fitted with individual nut caps, slide the nut cap tool from its housing.



Z151L070

FLAT TYRE cont.

6. Chock the wheel diagonally opposite the flat tyre with solid objects.



7. If the wheel trim covers the wheel nuts, remove as follows:

   If individual wheel nut caps are fitted, remove each nut cap individually, using the nut cap tool provided. Insert the nut cap tool into the nut cavity, squeeze the tool to grasp the nut cap and pull outwards to remove it. Put the nut caps (together) in a dry, clean place to avoid getting dirt inside the caps.

   If a wheel cover is fitted, lever it off with the end of the wheel wrench.

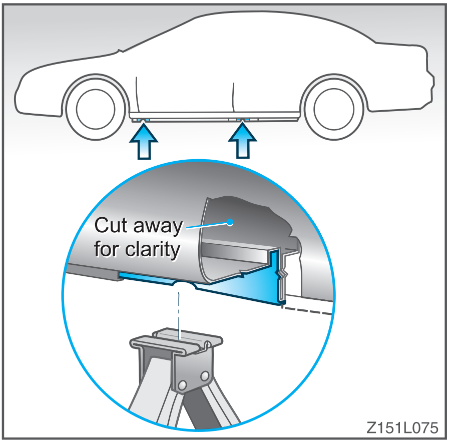
   If a centre cap is fitted that covers the wheel nuts, then remove it by using the end of the wheel wrench or your fingers.

8. Loosen, but do not remove the wheel nuts by turning the wheel wrench anticlockwise.
9. Fit the jack handle onto the jack by sliding the open end of the handle over the nut end of the jack.
10. Place the jack beneath the jack location closest to the wheel being changed.

    There are four jack locations; two each side of the vehicle. The jack locations (blue arrows in the illustration) are marked by half circle cutouts on the vehicle.

    The rear jack location is positioned half way along the vehicle.

    Note: Always read the label on the jack.



WARNING:

Failure to position the jack as described above could cause the vehicle to slip off the jack.

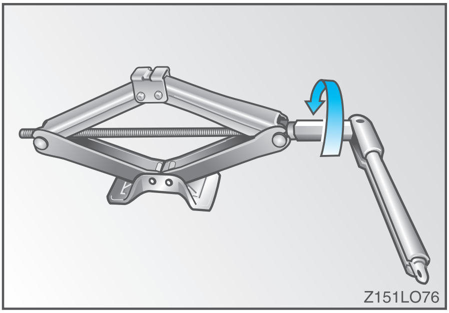
FLAT TYRE cont.

11. Raise the jack to fit the U-shaped lifting foot of the jack around the body of the vehicle, at the jack location.

    Ensure that the jack is not tilted and that the base is resting squarely on the ground.

    Turn the handle clockwise to raise and anticlockwise to lower the vehicle.

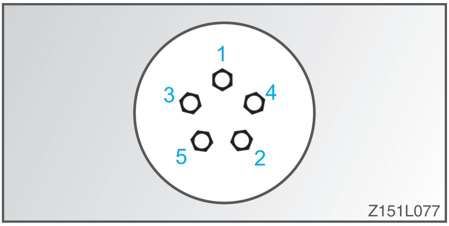
    Note: The jack handle must be unfolded into a right angle (as shown) before it is used.



12. Raise the vehicle until the tyre is clear of the ground. Remove the wheel nuts and place (together) in a dry place to avoid getting dirt in the threads. Exchange the wheel on the vehicle with the spare wheel.

    Note: You may wish to change the wheel centre cap onto the wheel being put on the vehicle. Remove the centre cap from the wheel that has the flat tyre by gently punching it out from the back of the wheel. Push it onto the spare wheel, now on the vehicle.

13. Replace the wheel nuts and tighten by hand. Then, using the wheel wrench, lightly tighten each nut in the sequence shown.
14. Lower the vehicle completely and remove the jack.
15. Fully tighten the wheel nuts using the wheel wrench in the sequence shown.



16. Replace any wheel trim which covers wheel nuts, as follows:
    - Ensure that the wheel trim is clean of excess dirt.

      Note: Each type of wheel trim fits in a specific position on the wheel. If incorrectly placed the trim will not sit 'flush' and, if forced, may damage the wheel.
    - If a full wheel trim is fitted, locate the valve in the valve hole provided in the wheel trim. Working around the wheel trim, use several light blows with the palm of your hand to push the wheel trim on. It may be necessary to protect the hand during this operation.
    - Where a centre cap is fitted, simply push the cap firmly onto the centre part of the wheel using your hand.
    - Where individual wheel nut caps are fitted, replace caps over each nut.

FLAT TYRE cont.

17. Stow all tools and flat tyre as shown in previous pages.

Note:

- Remember to unhook the spare wheel cover before closing the boot.
- To reduce movement of the spare wheel in the load area, the centre nut should be tightened to between 2 to 3 Nm (Newton metres) (very tight 'finger' tight). The spare wheel should be laying flat and centralised in position.

18. Remember to get the tyre repaired as soon as possible.

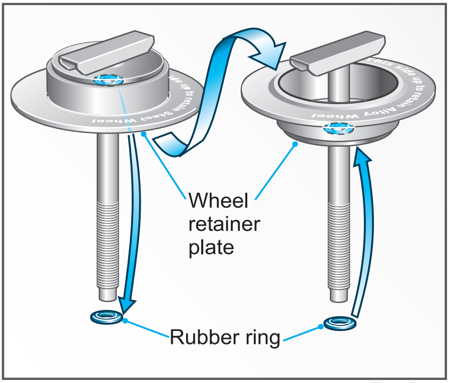
Vehicles fitted with alloy road wheels and a steel spare

A wheel retainer and rubber ring securely holds the wheel retainer plate and spare steel wheel in the load area.

In the case of a flat tyre, use this wheel retainer to properly secure the alloy wheel in the load area after installing the spare to the vehicle.

To do this, remove the plate from the wheel retainer and turn it upside down.

Refer to the label on the wheel retainer for correct positioning. Make sure the wheel is secured in the load area before attempting to drive.



Z150R298

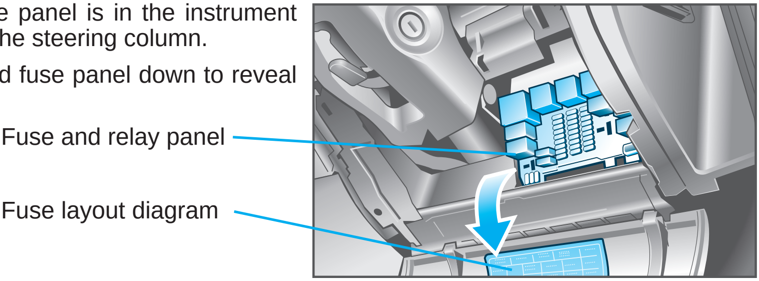
WARNING:

As soon as possible after changing a wheel, you should have the wheel nuts tightened with a torque wrench to between 110 and 140 Nm (Newton metres). Wheel nuts should be tightened evenly to the correct torque in the sequence shown previously, as wheel nuts which have not been tightened properly could eventually allow the wheel to come off while the vehicle is moving!

FUSES

The main fuse panel is in the instrument panel, below the steering column.

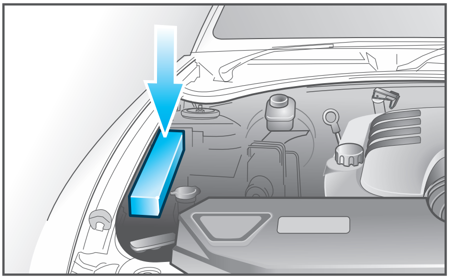
Pull the hinged fuse panel down to reveal the fuses.



Z150R299

The separate, fuse / relay box is located in the engine compartment, marked 'Fuses'. Access to these fuses is gained by removing the snap-on cover.

Both covers have diagrams showing the layout of the fuses and the amperage rating.

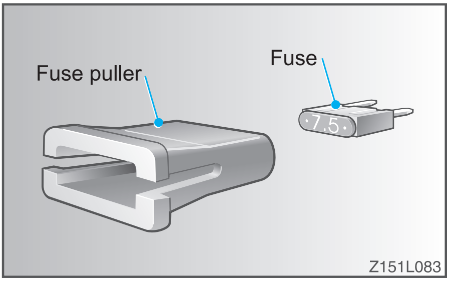


Z151R082

To determine whether or not a fuse is blown, it is necessary to pull out the suspect fuse and examine the element in the fuse. A fuse puller is provided in the fuse panel inside the vehicle.

If the fuse has blown, replace with one of the same amperage, as stamped on the fuse head, for example:

COLOUR	RATING (AMPS)
Brown	7.5
Red	10
Blue	15
Yellow	20
Green	30
Orange	40



Z151L083

If a fuse blows twice in a row, a fault is indicated. The cause should be promptly located and fixed.

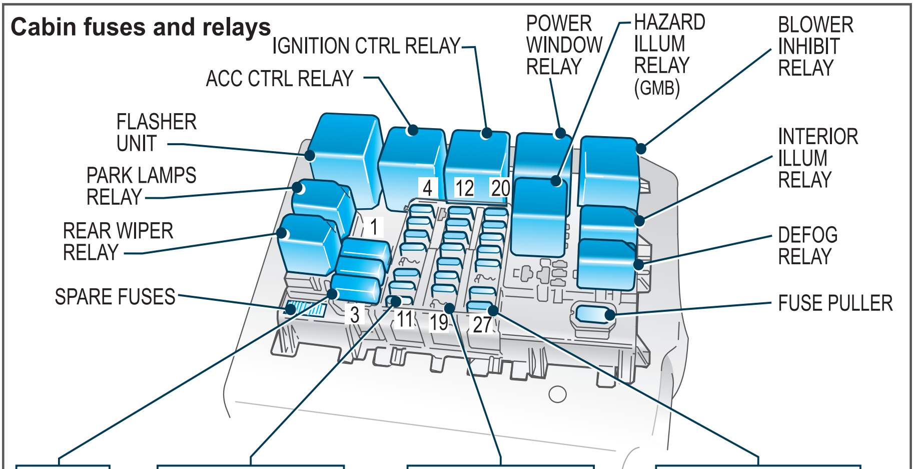
Ensure that the fuse cover, either inside the vehicle or under the bonnet, is securely in place.

WARNING:

When replacing a fuse be sure to use a fuse of the specified amperage. Never install a wire or similar item as it could damage electrical components and cause a fire.

FUSES cont.

Cabin fuses and relays


IGNITION CTRL RELAY
ACC CTRL RELAY
POWER WINDOW RELAY
HAZARD ILLUM RELAY (GMB)
BLOWER INHIBIT RELAY
FLASHER UNIT
PARK LAMPS RELAY
REAR WIPER RELAY
SPARE FUSES
INTERIOR ILLUM RELAY
DEFOG RELAY
FUSE PULLER
4
12
20
1
3
11
19
27

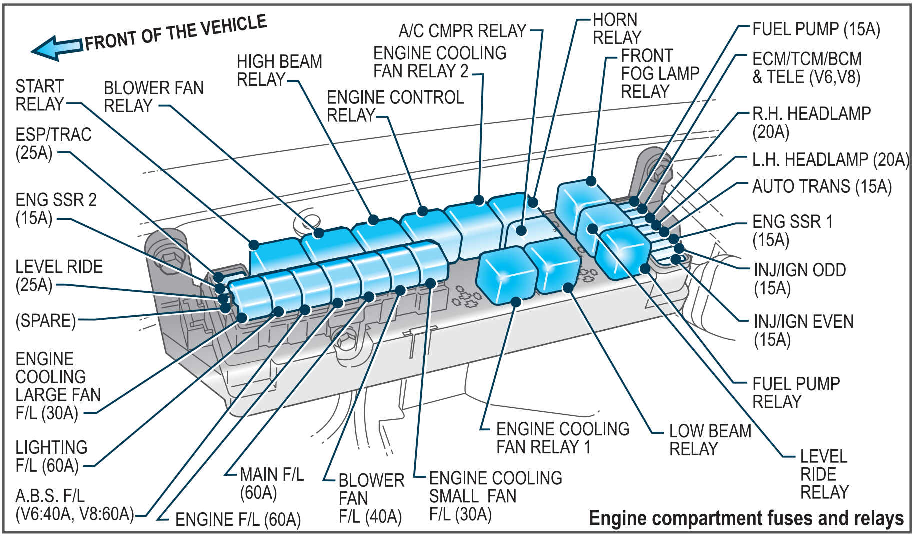
1 (20A) POWER WINDOWS
2 (20A) POWER SEATS
3 (20A) SUNROOF

4 (10A) PARK LAMPS
5 (15A) STOP LAMPS
6 (10A) INTERIOR ILLUM.
7 (15A) ANTENNA DRIVE/HAZARD WARNING
8 (SPARE)
9 (15A) HORN
10 (7.5A) IGNITION
11 (7.5A) INSTRUMENT ILLUM.

12 (15A) TURN SIGNAL
13 (7.5A) ECC/INST TRIP COMP
14 (20A) CIGAR LIGHTER
15 (10A) CRUISE CONT. PWR STEER, MIRRORS
16 (7.5A) RADIO/NAV/ PHONE
17 (20A) ACC. SOCKET
18 (20A) WIPER & WASHER
19 (SPARE)

20 (15A) THEFT HORN/ PWR DR LOCK/ PWR WDO
21 (10A) CLIMATE CTRL (ECC)
22 (20A) HEATED REAR WINDOW
23 (15A) RADIO/NAV/ PHONE
24 (20A) SUB-WOOFER AMPLIFIER
26 SPARE
26 (15A) AIRBAG
27 (10A) ABS

L150R200


FRONT OF THE VEHICLE
START RELAY
BLOWER FAN RELAY
HIGH BEAM RELAY
ENGINE CONTROL RELAY
A/C CMPR RELAY
ENGINE COOLING FAN RELAY 2
HORN RELAY
FRONT FOG LAMP RELAY
FUEL PUMP (15A)
ECM/TCM/BCM & TELE (V6,V8)
R.H. HEADLAMP (20A)
L.H. HEADLAMP (20A)
AUTO TRANS (15A)
ENG SSR 1 (15A)
INJ/IGN ODD (15A)
INJ/IGN EVEN (15A)
FUEL PUMP RELAY
LEVEL RIDE RELAY
LOW BEAM RELAY
ENGINE COOLING FAN RELAY 1
ENGINE COOLING SMALL FAN F/L (30A)
BLOWER FAN F/L (40A)
MAIN F/L (60A)
ENGINE F/L (60A)
A.B.S. F/L (V6:40A, V8:60A)
LIGHTING F/L (60A)
ENGINE COOLING LARGE FAN F/L (30A)
(SPARE)
LEVEL RIDE (25A)
ENG SSR 2 (15A)
ESP/TRAC (25A)

Engine compartment fuses and relays

L150R201

TOWING A DISABLED VEHICLE

Towing a disabled vehicle

Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage. All applicable laws must be followed. In an emergency, the vehicle may be towed on all four wheels in the following manner:

- Fit the towing equipment to the holes at the side of the front cross member. Use of two hooks with the load evenly spread, rather than one, is recommended. Do not attach towing equipment to the bumpers or brackets, suspension or cross members.
- Place the transmission in Neutral and release the park brake.
- Switch the ignition key to the accessories position. This frees the steering lock and allows the correct operation of windscreen wipers and turn signals.
- For safety and to prevent damage to the vehicle, avoid jerky movements and drive slowly during towing operations.
- Remember that power assist for brakes and power steering are not available when the engine is off. The brakes and steering still function, but take greater effort.
- To prevent exhaust fumes from the towing vehicle entering the towed vehicle, close the windows and move heating and ventilation controls to the 'recirculate' position.
- Vehicles fitted with automatic transmissions must not be towed for more than 55 km or at over 55 km/h unless the propeller shaft is removed.
- Vehicles with damaged transmissions must not be towed unless the propeller shaft is removed.
- Only the driver should be inside a towed vehicle.

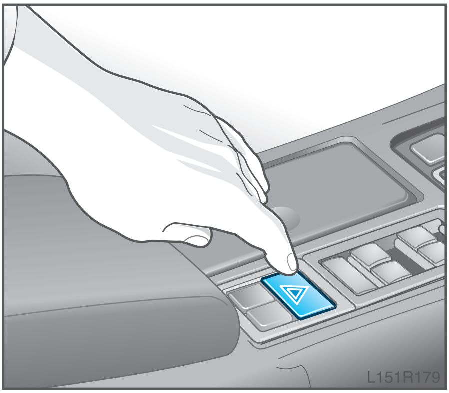
Hazard warning flashers

Press the switch (as shown) to turn the hazard warning flashers on and off. The hazard warning flashers work regardless of the ignition position.

When turned on, all turn signals flash continuously.

Use the hazard warning flashers to warn other drivers any time the vehicle becomes a traffic hazard, day or night.

Note: Use of the hazard warning flashers while the vehicle is moving may be illegal in some states or countries.



ENGINE OVERHEATING

WARNING:

Immediate action is required if the engine overheats. This can be indicated by the temperature gauge needle moving over to the 'H' or the animated warning 'Engine Temp Hot' appearing on the central display (refer to Chapter 1), by steam escaping from under the bonnet, a loss of power or a loud knocking or pinging noise.

If an overheated engine condition exists, the overheated engine protection mode is activated. This protection mode alternates firing groups of cylinders and helps prevent engine damage. In this mode, there is a loss of power and engine performance. This operating mode allows the vehicle to be driven at a speed of up to 80 km/h for the duration of one hour.

While your vehicle is fitted with this function, it is advisable to stop the vehicle as soon as it is safe to do so and take your vehicle to the nearest Holden Dealer.

WARNING:

After driving in the overheated engine protection mode and to avoid engine damage, allow the engine to cool before attempting any repair. The engine oil will be severely degraded. Repair the cause of coolant loss and change the oil.

Pull out of the traffic as soon as possible and stop the vehicle. Leave the engine idling, ensure that the park brake is applied and that the automatic transmission is placed in Park, while you get out and check that the cooling fan is working.

WARNING:

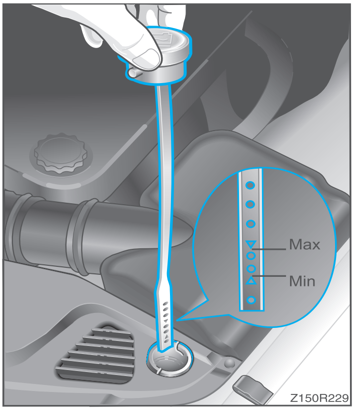
Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.

If the fan is working and the temperature gauge needle has not returned to its normal position within a few minutes STOP the engine and remove the ignition key. Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump. Take care when checking these areas as they will probably still be hot.

If you find a major leak or other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong, check the engine coolant level.

Turn the coolant dipstick cap one-eighth of a turn anticlockwise and pull out the dipstick. When the engine is cold, the coolant level should be at or above the lower triangle mark on the dipstick. After the vehicle has been driven and the engine is at normal operating temperature, the level should be somewhere between half full and the Maximum triangle mark. If the coolant level is correct, replace the dipstick and turn the cap one-eighth of a turn clockwise to secure.



ENGINE OVERHEATING cont.

If the level is too low, proceed as follows:

WARNING:
Do not remove the radiator cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

When the engine has cooled sufficiently, check the radiator level as follows.

For V6 Engines: Locate the radiator cap housed on the engine.

- Cover the cap with a thick cloth and turn it slowly anticlockwise until it can be removed.

For V8 Engines: Remove the front engine cover and locate the radiator cap housed on the driver’s side of the radiator.

- Cover the radiator cap with a thick cloth and turn it slowly anticlockwise (without pressing down) until it reaches a 'stop'. This is the pressure relief stop, which allows any remaining pressure (indicated by a hissing sound) to escape.
- Press down on the cap and continue turning it anticlockwise until it can be removed.

1. Remove the coolant dipstick.
2. Top up the coolant dipstick tank if required. Remember to check that the dipstick is secure after filling.
3. While the engine is idling, top up the radiator (if required) and replace the radiator cap.

If, after carrying out one or more of the preceding actions the temperature gauge no longer signals an overheat condition, resume driving at a reduced speed. Return to normal driving after 10 minutes if the temperature gauge does not show an overheat condition once more. If overheating occurs again, have the vehicle attended to by a qualified mechanic as soon as possible.

The engine may temporarily operate at high temperatures during demanding operating conditions, especially on hot days, including: climbing a long hill; stopping immediately after high speed driving; idling for long periods in traffic; towing a heavily laden trailer or caravan.

Avoid driving for prolonged periods in any of the above conditions if the temperature gauge shows 'H'. It may help to turn off the air conditioner in these conditions. Refer to Chapter 7 for instructions to help protect the cooling system from overheating.

Air bleeding

Bleeder vents allow any trapped air escape from the cooling system. Air bleeding should be done if a significant amount of coolant has been added, otherwise the engine may overheat.

It is recommended that air bleeding be done by your Holden Dealer who has the most up-to-date technical information and equipment for the system.

If you have to drive the vehicle before the air bleeding is done, ensure that the coolant level in the radiator is as high as possible. This involves constantly checking and topping up the level. It is recommended you reduce the load on the power train, for example, reduce the driving speed, do not tow heavy loads or heavily load the vehicle until the air is bled.

FLAT BATTERY

WARNING:

DO NOT 'push start' or 'tow start' the vehicle, either manual or automatic. If unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, if the battery is flat, 'jump start', but not 'push start' the vehicle.

Please read the following procedure in full before attempting to jump start the vehicle.

If, after reading the following procedure, you are still unsure about 'jump starting' Holden strongly recommends for your safety and that of the vehicle that you seek the assistance of a competent mechanic.

Jump starting

WARNING:

Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, adhere to the following when working near a battery:

- Do not use open flames or sparks near the battery.
- Do not smoke near the battery.
- Wear eye protection such as safety glasses and avoid leaning over the battery.
- Battery acid is corrosive. If it gets on your skin, wash with plenty of water immediately. If it gets in your eyes you should not only flush with lots of water but should also seek medical help. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.
- Be sure any batteries that have filler caps are properly filled with fluid.
- Remove rings, metal watch bands and other metal jewellery before working around the battery.
- Never use a quick charger to start the engine.
- If a telephone is fitted to the vehicle, remove the fuse for the telephone before jump starting. Remember to replace the fuse afterwards.

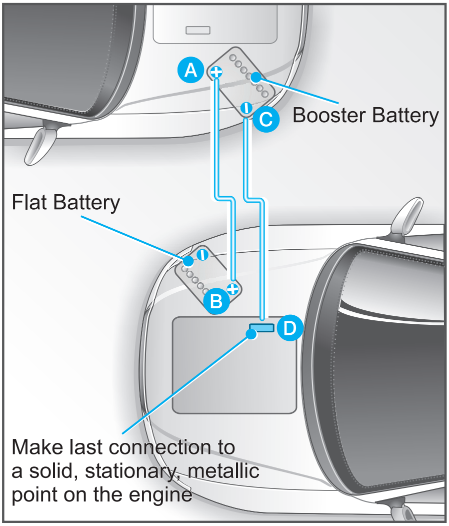
1. The battery in the vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle **MUST** also have a negative earth and a 12 volt rating. Remove any battery covers.
2. Position the two vehicles so that they are NOT touching, apply the park brakes, put automatic transmissions in P (park) and manual transmissions in Neutral. Turn ignition to Lock and switch off all lights and accessories in both vehicles, except the hazard warning flashers or any lights needed for the work area.

FLAT BATTERY cont.

3. Attach one end of the RED jumper lead to the positive terminal (**A**) of the booster battery (identified by a red colour, + or P) and the other end of the RED jumper lead to the positive terminal (**B**) of the flat battery.
4. Attach one end of the BLACK jumper lead to the negative terminal (**C**) of the booster battery (identified by a black colour, – or N) and the other end of the BLACK jumper lead to a solid stationary, metallic point on the engine (**D**) of the vehicle with the flat battery. DO NOT CONNECT DIRECTLY TO NEGATIVE TERMINAL OF THE FLAT BATTERY.

   WARNING:

   When making all connections take care that the jumper lead clamps do not touch each other. Also, ensure that jumper leads are not on or near pulleys, fans or other points that will move when the engine is started.
5. Start the engine in the vehicle with the good battery and run the engine at a moderate speed. Then start the engine with the flat battery.


A
Booster Battery
C
Flat Battery
B
D
Make last connection to a solid, stationary, metallic point on the engine

Z151L080

6. Leave the engines running while removing the jumper leads in exactly the reverse order that they were installed. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.
7. Replace any battery covers.

AIRBAGS

The vehicle is fitted with front airbags and side impact airbags for both the driver and front passenger.

The driver's airbag is stored inside the steering wheel, SRS AIR BAG is stamped on the steering wheel and a label is attached under the driver's side sunvisor.

The front passenger's airbag is stored in the dash panel. The fitment of a passenger's airbag is recognised by the wording SRS AIR BAG above the glovebox and a label attached under the passenger's side sunvisor.

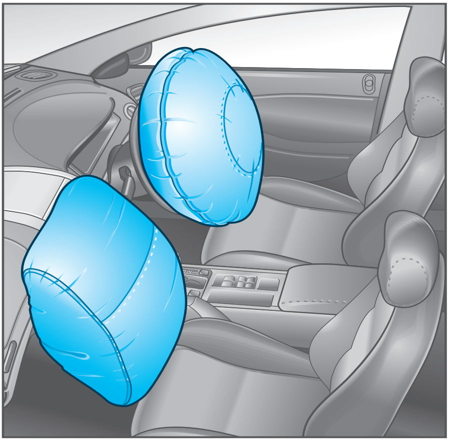
The side impact airbags (SIAB) for the driver and front passenger are stored in the side of the seat backs closest to the door. The fitment of side impact airbags is recognised by the labels on both door lock pillars and on the outside of the vehicle, as illustrated.

The two front airbags operate as a pair and are triggered simultaneously in the event of certain severe frontal impacts. However, side impact airbags are triggered independently.

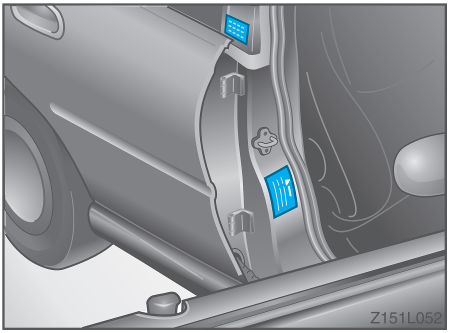
In certain severe front end collisions, both front airbags inflate, assisting seat belts to restrain forward body movement. A side impact airbag will only trigger on the side of the vehicle that is struck.

When airbags inflate an operating noise may be heard and a small amount of smoke-like gas is released. The gas is harmless and does not indicate malfunction or fire. The airbag then deflates, with the whole process taking only a moment.

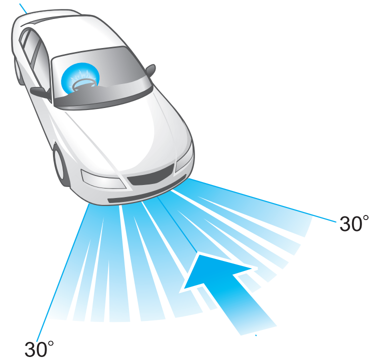
WARNING:
Airbags are part of the Supplemental Restraint System (SRS) as they assist, but do not replace seat belts. Airbags are not designed to inflate if the vehicle is hit from the rear or is overturned. Seat belts must be worn by all passengers whenever the vehicle is moving.



Z150R300



Front airbags



Front airbags inflate if the vehicle is struck hard, in frontal or near frontal impacts. Front airbags do not inflate if vehicle is struck from the side, rear, or in some rollovers...always wear a seat belt.

Z150R301

AIRBAGS cont.

Operation

Airbags inflate with great force. If you are too close to an inflating airbag it may cause injury. Seat belts help keep you in position for airbag inflation in the event of a collision.

Ten seconds after any airbag or seat belt pretensioner (refer to Chapter 3) has been activated (and the vehicle has stopped) the vehicle will:

- Unlock the doors.
- Turn off the engine.
- Turn off the fuel pump.
- Switch on the interior light (provided there is battery power).

Switch the ignition Off and then on if restarting the engine is required.

An **SRS** warning light on the instrument panel illuminates for a few seconds when the ignition is switched On. This is to indicate that the airbags are operational. If the light does not illuminate when the ignition is switched On, or if it illuminates when driving, contact your Holden Dealer immediately, as the airbags and seat belt pretensioners may not function correctly in the event of an accident.

The warning light illuminates after an accident if a side impact airbag, seat belt pretensioners, or seat belt pretensioners and airbag(s), have activated. Refer to Chapter 1 for details about warning lights and fault indicators applicable to airbag and pretensioner operation.

After an accident in which the front airbag system is triggered, the airbag system (steering wheel, steering column, both front airbag assemblies, both front seat belt assemblies, passenger’s airbag cover and dash panel and the SRS control module) must be replaced. After side impact airbag deployment, the relevant seat, seat belt, sensor and control module require replacement. It is recommended that this work be done by a Holden Dealer.

WARNING:

- **Front passenger's airbag**: The dashboard area must be kept clear. Do not place any objects over the dashboard or between an airbag and yourself. Nothing should hang from the sunvisor or mirror and a passenger must not rest their feet on the dashboard.
- **Driver's airbag**: The horn pad must not be covered with adhesive or any other material. The driver should adjust the seat as far back as possible and sit back as far as possible while still maintaining control of the vehicle.
- **Side impact airbags**: Do not fit unauthorised seat covers as they may impair the deployment of the side impact airbags. Do not position your body or any object (including pillows) between front seats and doors. Front seat occupants should not lean on or sleep against the door. Always sit centrally in the seat.

AIRBAGS cont.

The system should be inspected by a Holden Dealer if the dashboard area or steering wheel is scratched, cracked or damaged, or the front seats are damaged.

Extensive design and testing has gone into the vehicle's airbag system. However, it should be treated with respect. Any careless or unskilled interference with the system could lead to its failure or to accidental inflation. Any work to the electrical system, steering column, dashboard area, steering wheel, front seats or airbag system should only be carried out by an authorised Holden Dealer.

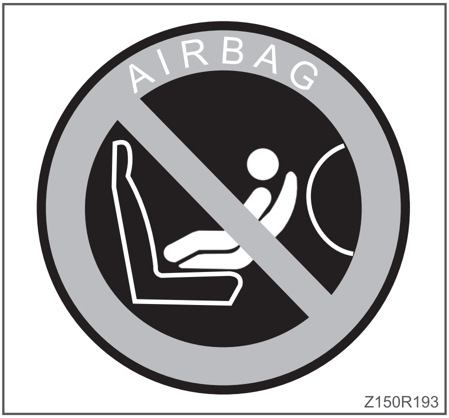
ROO BAR NOTE: Fitting a roo bar can change the impact speed which would normally cause the front airbags to inflate, reducing effectiveness and potentially increasing the risk of injury and repair cost. Refer to Chapter 4 for further information about fitting a roo bar.

SIDE IMPACT AIRBAG NOTE: The side impact airbags (SIAB) deploy and offer protection in most, but not all, severe side impacts. Because of the limited time available to detect some side impacts, it is not possible to deploy the SIAB in all serious accidents (for example, some pole impacts).

AIRBAG AND CHILD RESTRAINTS:

WARNING – EXTREME HAZARD:

- Do NOT use a rearward facing child restraint on a seat protected by an airbag in front of it. The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.
- NEVER install a child restraint in the front seat of a vehicle fitted with Side Impact Airbags. Remember that it is safest for children to be seated in the rear seats.



Please refer to 'Child restraints' in Chapter 3 for further information about fitting a child restraint.

BULB REPLACEMENT

Notes when replacing bulbs:

- Always turn off the related switch.
- It is important to fit only bulbs of the specified wattage.
- Do not touch new bulbs or reflectors with bare hands. Greasy fingers cause stains which evaporate, eventually resulting in a dull reflector. Grease spots on Halogen bulbs will, within a short time, lead to bulb failure. Clean stained bulbs with methylated spirits.

Front lights

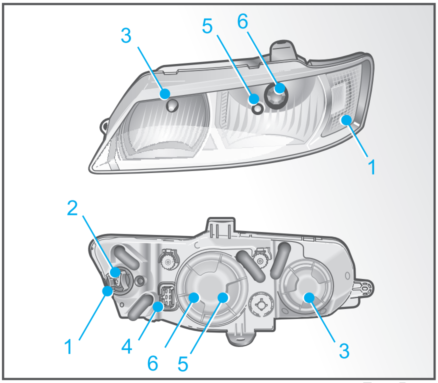
To gain access if replacing a bulb on the right-hand side: Remove the radiator cowl by placing a screwdriver under the four front scrivets. Pop the scrivets and remove the cowl. Undo the battery clamp, remove the battery retaining plate and slide the battery out of the way toward the rear of the vehicle. If the vehicle has a V8 engine and is fitted with a larger battery, the battery terminals must be disconnected, and the battery completely removed from the vehicle.

Note: After replacing the bulb on the right-hand side, remember to replace and connect the battery. Return the cowl to its original position and replace the scrivets.

To gain access if replacing a bulb on the left-hand side of a vehicle: Remove the radiator cowl by placing a screwdriver under the four front scrivets. Pop the scrivets and remove the cowl. Pull the coolant filler bottle neck to remove it, and place it to one side. Remove the air-intake on the air filter box.

Note: After replacing the bulb on the left-hand side of a vehicle, remember to replace air-intake, coolant filler bottle neck, cowl and scrivets.

If unsure of the bulb replacement process for the front lights, please have the work carried out by a competent mechanic.



Z150R303

Front lights:

1. Turn signal lamp.
2. Turn signal wiring connector.
3. Headlights inboard high beam.
4. Headlight wiring connector.
5. Park lights.
6. Headlight outboard low beam.

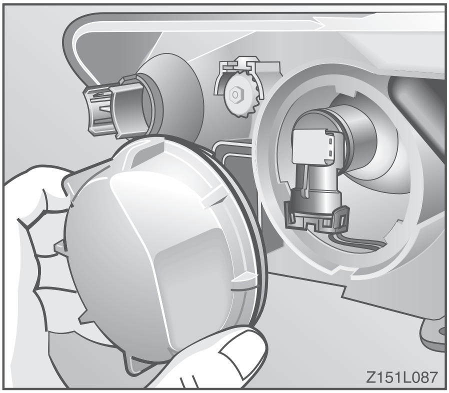
BULB REPLACEMENT cont.

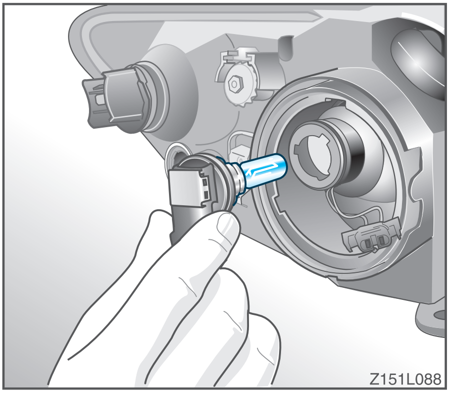
Headlights – outboard low beam (H11 – 55 Watt bulb)

1. Open the bonnet. Refer to 'Front lights' previously described in this chapter for access instructions.
2. Turn the outboard dust cap anticlockwise and remove from the rear of the headlight assembly.
3. Remove the wiring harness connector by squeezing the two tangs on the harness connector and pulling the connector down.
4. Remove the bulb by twisting it anticlockwise.
5. Install the new bulb by twisting it clockwise.

   Note: Do not touch the new bulb with your fingers. If accidentally touched, wipe the bulb immediately with methylated spirits.

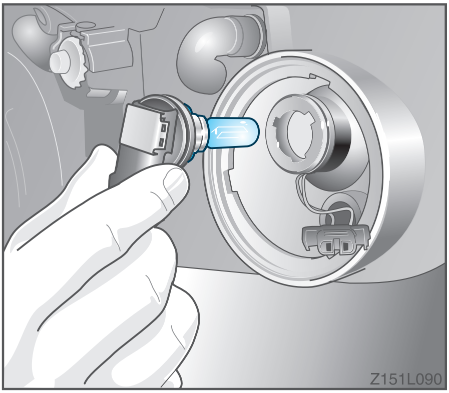
   The different sized locating tangs on the bulb base allow the bulb to sit correctly into the reflector in one position only.
6. Install the wiring harness connector and dust cap (ensuring the rubber seal is in place).
7. Install components removed. Refer to 'Front lights' previously described in this chapter.
8. Check light operation.





BULB REPLACEMENT cont.

Headlights – inboard high beam (H9 – 65 Watt bulb)



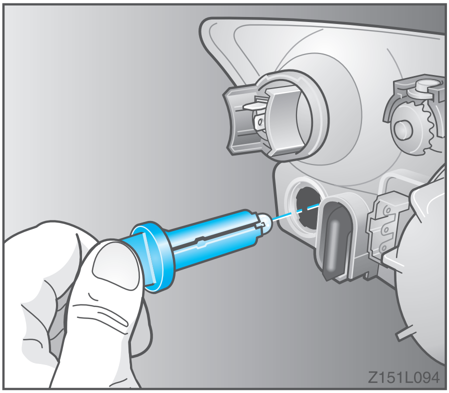
1. Open the bonnet. Refer to 'Front lights' previously described in this chapter for access instructions.
2. Turn the inboard dust cap anticlockwise and remove from the rear of the headlight assembly.
3. Remove the wiring harness connector by squeezing the two tangs on the harness connector and pulling the connector down.
4. Remove the bulb by twisting it anticlockwise.
5. Install the new bulb by twisting it clockwise.

   Note: Do not touch the new bulb with your fingers. If accidentally touched, wipe the bulb immediately with methylated spirits.

   The different sized locating tangs on the bulb base allow the bulb to sit correctly into the reflector in one position only.
6. Install the wiring harness connector and dust cap (ensuring the rubber seal is in place).
7. Install components removed. Refer to 'Front lights' previously described in this chapter.
8. Check light operation.

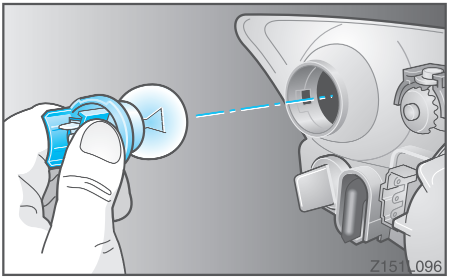
BULB REPLACEMENT cont.

Front park lights (5 Watts)


Z151L094

1. Open the bonnet. Refer to 'Front lights' previously described in this chapter for access instructions.
2. Remove the park light bulb holder by turning it anticlockwise and pulling it straight out.
3. Remove the park light bulb by pulling it straight out of the holder.
4. Insert the new bulb into the holder, then install the holder and dust cap (ensuring the rubber seal is in place).
5. Install components removed. Refer to 'Front lights' previously described in this chapter.
6. Check light operation.

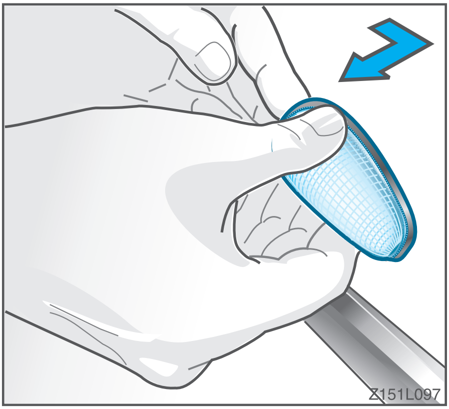
Front turn signal (21 Watts)


Z151L096

1. Open the bonnet. Refer to 'Front lights' previously described in this chapter for access instructions.
2. Disconnect the wiring harness connector.
3. Turn the bulb holder anticlockwise and remove.
4. Lightly press the bulb and twist anticlockwise out of the holder.
5. Insert the new bulb and install the bulb holder.

   Note: The bulb should be coloured orange.
6. Connect the wiring harness connector.
7. Install components removed. Refer to 'Front lights' previously described in this chapter.
8. Check light operation.

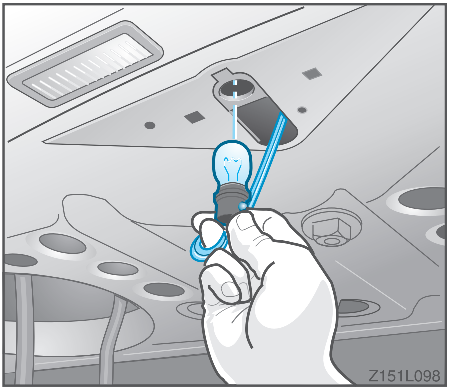
BULB REPLACEMENT cont.



Side turn signal (5 Watts)

1. Grasp the lens at the rear, push forwards and pull away from the body of the vehicle. Separate the bulb holder from the lens assembly by first rotating the bulb holder anticlockwise.
2. Disconnect the wiring harness connector. The bulb pulls straight out of the bulb holder.
3. Insert the new bulb into the bulb holder. Install the bulb holder into the lens housing.

   Note: The bulb holder only fits into the lens housing one way. Therefore, keep turning the bulb holder clockwise until it fits into place and can be tightened.
4. Connect the wiring harness connector.
5. When inserting the light, first locate the rear of the housing into the body before pushing the front inwards to engage the clip.
6. Check light operation.



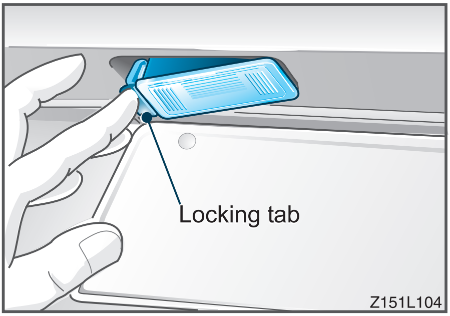
Rear high stop light (18 Watts)

Note: It may be necessary to use a pair of pointed nose pliers to hold and release the bulb socket.

1. From the boot, reach under the stop light and twist the bulb holder to remove it. The bulb pulls straight out of the bulb holder.
2. Install the new bulb into the bulb holder, then fit the bulb holder back into the stop light.
3. Check light operation.

BULB REPLACEMENT cont.

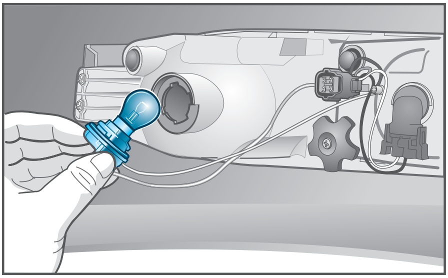
Number plate (5 Watts)



1. Push the locking tang at the end of the lamp housing towards the lens and pull the lamp assembly downwards.
2. Remove the bulb holder from the lamp housing by rotating the bulb holder anticlockwise. Pull the bulb out of the bulb holder.
3. Push the new bulb into the bulb holder. Install the bulb holder into the lamp housing by rotating the bulb holder clockwise, ensuring that the seal is undamaged.

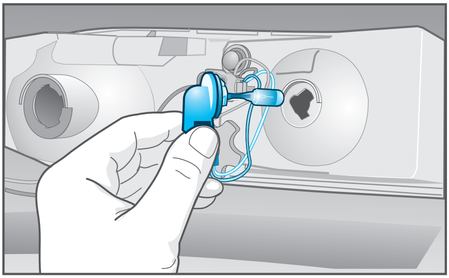
   Note: The lamp assembly can only be fitted into the licence plate surround in one direction.
4. Install the lamp assembly into the surround.
5. Check light operation.

Cornering lights (21 Watts)



1. Reach underneath the bumper bar, rotate the bulb holder anticlockwise and remove.
2. Push in and turn the bulb to remove from the bulb holder.
3. Install the new bulb into the bulb holder, refit bulb the holder back into the cornering light.
4. Check light operation.

Fog lights (27 Watts)



1. Reach underneath the bumper bar and remove the wiring harness connector by squeezing the two tangs on the harness connector and pulling the connector down.
2. Remove the bulb by twisting it anticlockwise.
3. Install the new bulb by twisting it clockwise.

   Note: Do not touch the new bulb with your fingers. If accidentally touched, wipe the bulb immediately with methylated spirits.

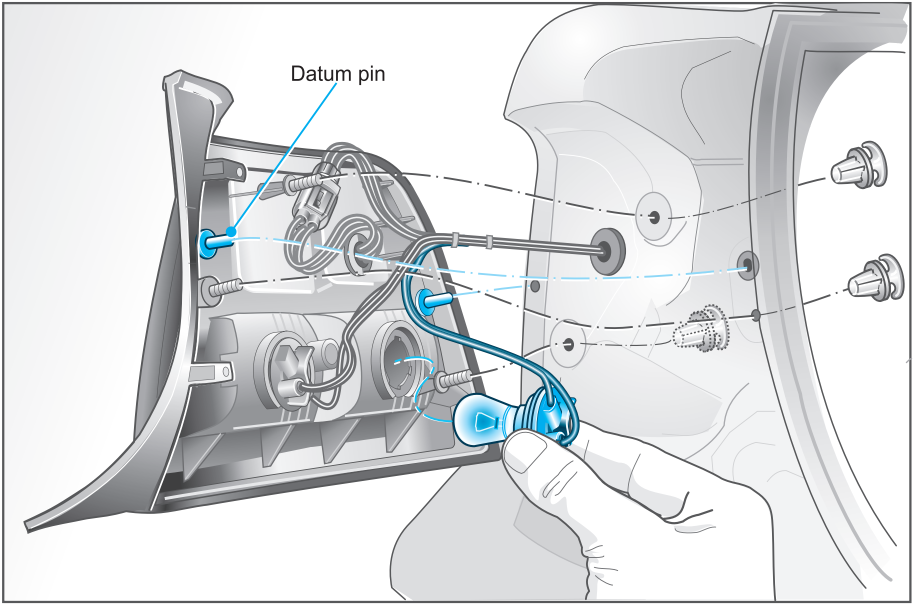
   The different sized locating tangs on the bulb base allow the bulb to sit correctly into the reflector in one position only.
4. Install the wiring harness connector.
5. Check light operation.

BULB REPLACEMENT cont.

Rear turn signal (21 Watts), stop / tail (21/5 Watts), reverse (21 Watts)

1. Open the boot.
2. Remove the three lamp attaching nuts by hand (if the nuts are too tight, use a 6 mm Allen key to loosen them).

   Note: For high luxury vehicles fitted with the Premium Sound System, a cutout in the quarter inner rear side carpet is provided for easy access to the bottom outboard retaining nut of the right hand side tail lamp assembly.
3. Grasp the lamp assembly and pull it rearward away from the body of the vehicle to release the retaining stud and gain access to the bulb holders.
4. From the rear of the assembly, turn the bulb holder anticlockwise to release it from its housing.
5. Remove the bulb from the holder by pushing it in and turning it anticlockwise.
6. Install the new bulb into the bulb holder by pushing it into the holder and turning it clockwise.
7. Install the bulb holder into the lamp and return the lamp assembly to the body, ensuring that all studs are aligned with the correct holes. Push on the outside corner of the assembly to lock it into place.
8. Tighten all nuts to 1.5 – 2.0 Nm (Newton metres) to ensure that the exterior seal is even with the panel.
9. Check light operation.



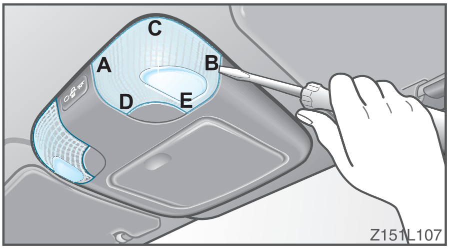
L151L031

Instrument panel lights, vanity mirror lights, high mounted stop lights mounted in the rear spoiler (if fitted)

Bulb replacement for these light assemblies should be carried out by the Holden Dealer.

BULB REPLACEMENT cont.

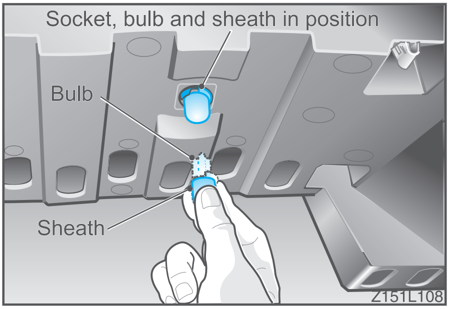
Interior (dome) light and front reading light (10 Watts)



The interior dome light and front reading lights are part of the sunglasses holder assembly located centre-front of the roof's interior.

1. Loosen the cover of the reading light by levering with a fine flat-blade screwdriver at point A and then point B, as shown.
2. To remove the cover, pull it downwards from point C to disengage the retaining clips at points D and E.
3. Carefully press and rotate the bulb anticlockwise to remove it.
4. Install the new bulb by carefully pushing it into the holder and rotating it clockwise.
5. Install the cover by first inserting the edge at points D and E, then clipping it back into place at point C.

Footwell lights (2.7 Watts)



Front footwell light bulbs are located on either side of the vehicle in the following locations:

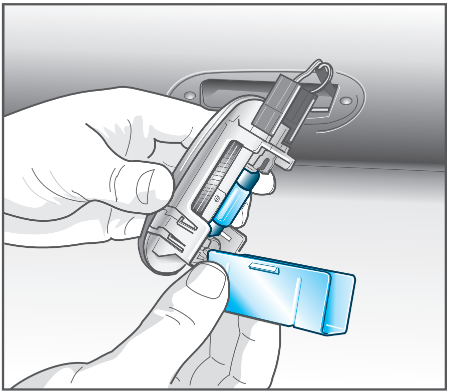
- On the driver's side in the hinge panel assembly.
- On the passenger's side in the hush panel assembly.

1. Twist the socket and pull down away from the panel assembly.
2. Pull the sheath off the bulb and pull the bulb from the socket.
3. Insert a new bulb into the socket and fit the sheath to the bulb.

BULB REPLACEMENT cont.

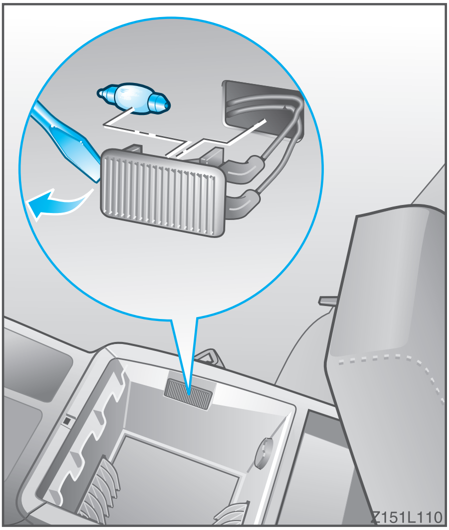
Door lights (5 Watts)

1. Gently prise away the lens housing with a fine flat-bladed screwdriver at the side tabs and pull the lamp assembly from the door trim.
2. Squeeze both sides of the back metal cover and pull away to expose the bulb.
3. Pull the tab holding the bulb (opposite end to wiring) backwards and pull the bulb out.
4. Install the new bulb by carefully pulling back the tab and pushing the bulb into place.
5. Fit the back metal cover, feed the wiring back into the cavity and push the lamp assembly back into place.



Glovebox (5 Watts)
Console bin (5 Watts)
Boot (10 Watts)
Rear reading (6 Watts)

1. Gently prise away the lens housing with a fine flat-bladed screwdriver.
2. Pull the tab holding the bulb (opposite end to wiring) backwards and pull the bulb out.
3. Install the new bulb by carefully pulling back the tab and pushing the bulb into place.
4. Feed the wiring back into the cavity and push the lens housing back into place.



NOTES

CHAPTER 7

Weekly checks

Page

7-2 Miscellaneous checks
7-3 Check locations
7-4 Engine oil level
7-5 Engine oil consumption
7-6 Engine coolant level
7-8 Automatic transmission fluid level
7-9 Washer fluid level
7-10 Brake fluid level
7-11 Power steering fluid level
7-12 Tyres
  Air pressure
  Tyre rotation
  Alignment and balance
  Replacement and repair
7-15 Battery
7-16 Trolley jack locations

MISCELLANEOUS CHECKS

As well as taking the vehicle to be serviced (refer to the service booklet in the vehicle's glovebox) there are a few simple, weekly checks that the owner / operator is recommended to make. These are shown on the following pages.

WARNING:

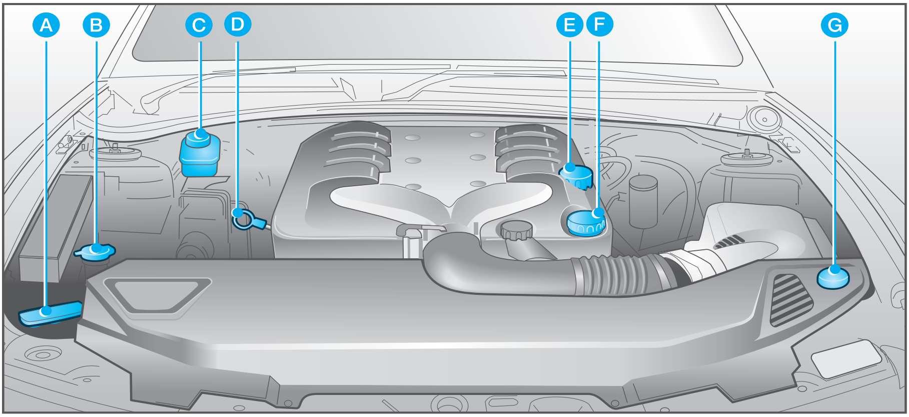
- If the engine temperature is high, the cooling fan may remain on for several minutes after turning off the ignition. Therefore, the engine cooling fan can start working unexpectedly, even when the engine is not running and the ignition is off.
- Electronic ignition systems have a high ignition power. Do not touch the ignition system; this could be highly dangerous.

Perform the following checks regularly to ensure safety of the vehicle.

Check:

- That all exterior lights are working and that their appropriate interior indicators illuminate.
- Mirrors and glass are clean and not scratched.
- Automatic transmission gear selector indicator correctly lines up next to the gear selected.
- Demister operates.
- Horn works.
- Condition and operation of all seat belts.
- Seat belt buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

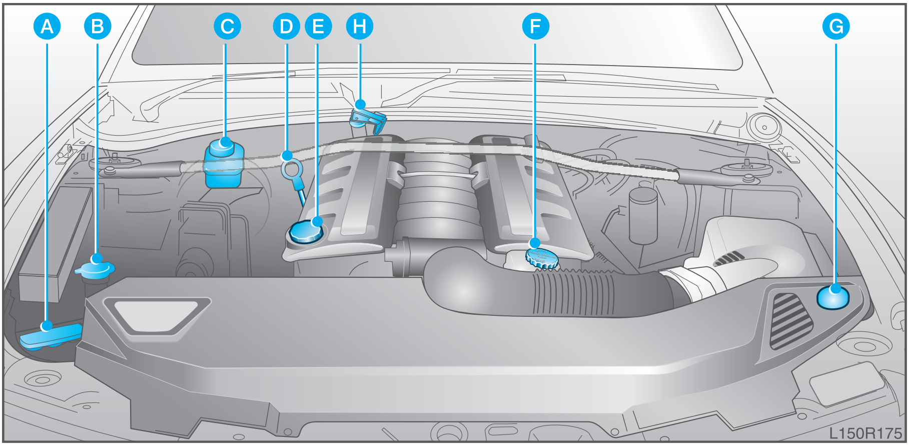
CHECK LOCATIONS



V6 engine

L150R174

– Battery .... page 7-15
— Windscreen washer fluid .... page 7-9
~ Brake fluid .... page 7-10
™ Dipstick for engine oil .... page 7-4
š Engine oil cap .... page 7-4
› Power steering fluid .... page 7-11
œ Engine coolant .... page 7-6
• Dipstick for automatic transmission .... page 7-8
(4-speed automatic transmission only)



V8 engine

ENGINE OIL LEVEL

Check the oil level weekly.

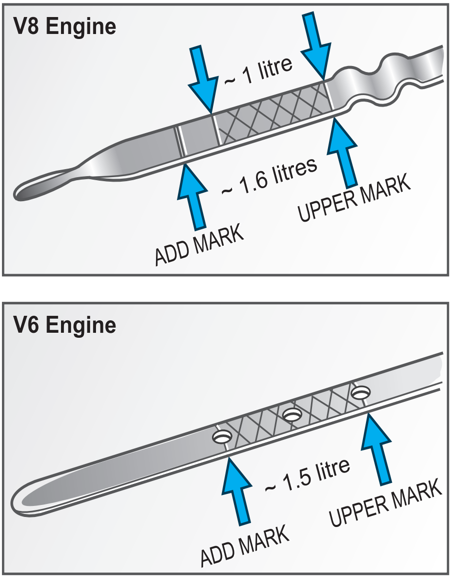
The level is checked with the dipstick. Refer to previously in this chapter for engine oil dipstick location.

To check the engine oil level

Check the level when the oil is warm, such as when stopping for fuel.

The vehicle must be on level ground.

1. After switching off the ignition wait at least 10 minutes for the oil to settle.
2. Remove the dipstick and wipe it clean with a clean cloth or paper towel. Insert the dipstick firmly all the way down, pause for several seconds then withdraw the dipstick and look at the oil level on it.
3. If the level is lower than the ADD mark, top up with enough oil to reach the UPPER mark. Be careful not to add too much, as the reading should never be over the UPPER mark.



Z150R228

To add engine oil

Refer to Chapter 8 for engine oil specification.

1. Turn the oil cap anticlockwise and remove. Refer to previously in this chapter for oil cap location.
2. Pour the required oil into the opening (clean up any spilled oil).
3. Wait a few minutes for the oil to settle, then check the oil level with the dipstick again. If still too low, add more oil.
4. When correct, screw the cap back on tightly and replace the dipstick.
5. If the oil level is checked when the oil is cold, do not run the engine first. Cold oil does not drain back into the oil pan fast enough to give an accurate reading.

Note: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended. Their use increases costs, may be detrimental to the operation of the vehicle and may void the New Vehicle Warranty, to the extent that Holden considers the non-recommended fluid to have affected the specifications or quality of the vehicle.

Engine oil change intervals

Refer to the service booklet in the vehicle's glovebox for servicing requirements.

ENGINE OIL CONSUMPTION

Every internal combustion engine uses a certain amount of oil, especially when running-in. The engine is dependent on oil for lubricating critical areas, such as the cylinder walls, pistons, rings and valve stems. These parts are all subjected to high friction loads and will prematurely wear out without a constant supply of engine oil. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in the engine: the way in which the vehicle is operated; the quality and grade of oil; the oil level and dilution of the oil; worn pistons, rings, valve stems and guides.

Operation of the vehicle: High speed driving and heavy towing increases engine temperature, which lowers oil viscosity, causing more oil to reach the combustion chamber and get burnt away. The oil level should always be checked prior to towing or a long trip.

Quality and grade of oil: Oil viscosity is a significant factor in oil consumption. If you use an oil which is too 'thin' (low viscosity) your oil consumption will increase. Use only the recommended grades of oil.

Oil level: Maintaining a proper oil level is also an important factor in controlling oil consumption. An over-full engine will splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil is drawn into the combustion chamber and burnt, or may result in aeration of oil in the sump causing damage to the engine.

Dilution: When a vehicle is frequently driven on short trips, the engine often fails to reach normal operating temperatures. The oil becomes diluted by fuel and moisture that settles in the oil pan. This may raise the oil level creating a false reading on the oil level dipstick. For example, in a vehicle that has accumulated 1500 km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the UPPER mark, due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate lowering the oil level. This sudden change in oil level can give the driver the impression that an excessive amount of oil has been 'lost' in the highway operation.

Measuring oil consumption: A simple consumption test can be performed if the driver is concerned by an apparent drop in the oil level.

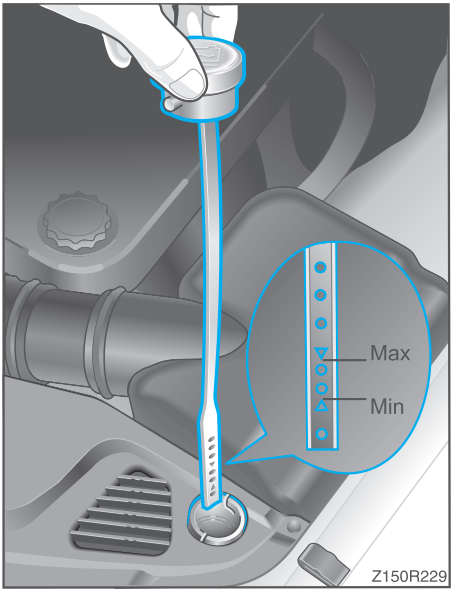
Add sufficient oil to bring the level up to the UPPER mark on the dipstick (avoid overfilling). Take note of the odometer reading and check the oil periodically. When the level reaches the ADD mark, carefully measure the amount of oil required to return the level back to the UPPER mark and note the odometer reading. The amount of oil added for the kilometres travelled over the duration of the test indicates the oil economy of the engine. Remember to check the oil level at the start and finish of the test on level ground and allow time for oil to drain down (wait approximately 10 minutes after engine is turned off). Avoid minor top-ups (0.25 to 0.5 litre) when measuring oil consumption, as inaccuracies of oil quantity added, may cloud the result.

If, after taking into account the above factors, you are still concerned that your engine has excessive oil consumption then consult your Holden Dealer. Remember that an engine’s oil consumption should not be judged until it has run at least 10 000 km.

ENGINE COOLANT LEVEL

Check the coolant level at least once a week.

The cap for the coolant reservoir is yellow and has the word 'COOLANT' marked on the top. Refer to previously in this chapter for coolant reservoir location.



To check the coolant level

1. Ensure the ignition is turned off.
2. Turn the coolant dipstick cap one-eighth of a turn anticlockwise and slowly pull out the dipstick. There are two triangles on the dipstick, representing Maximum and Minimum fluid levels.
3. When the engine is cold, the coolant level should be at or above the Minimum triangle mark on the dipstick. After the vehicle has been driven and the engine is at normal operating temperature, the level should be somewhere between half full and the Maximum triangle mark.
4. If the coolant level is correct, replace the dipstick and turn the cap one-eighth of a turn clockwise to secure.

To add coolant

Refer to Chapter 8 for engine coolant specification and water to coolant ratio.

1. Mix a solution of Holden coolant and clean fresh water in a container.

   Note: Failure to use the coolant or maintain the specified concentration may result in voiding New Vehicle Warranty.

2. Pour the fluid in through the dipstick tube (the same opening as the coolant dipstick is stored in). Again check the level with the dipstick and add further fluid if necessary.
3. When the level is correct, replace the dipstick and turn the cap one-eighth of a turn clockwise to secure.

   Note: The dipstick should only be replaced one way. The word 'COOLANT' on the cap should be able to be read from the front of the vehicle. If the wording is facing the rear of the vehicle the dipstick should be turned 180 degrees and then secured.

In emergency situations, plain clean water may be used temporarily until the correct coolant is obtained (as soon as possible) from the nearest Holden Dealer.

Note: If the coolant requires regular topping up, it could indicate that there is a leak or a fault. Contact your Holden Dealer as soon as possible.

ENGINE COOLANT LEVEL cont.

The specified coolant works in three ways:

- It contains special corrosion inhibitors.
- It helps the cooling system in hot weather by increasing the boiling point.
- It protects against freezing down to –37°C, provided the specified concentration is maintained.

WARNING:

Corrosion inhibitors and antifreeze fluids are poisonous. Use extreme care when handling. If swallowed, seek medical attention. Do not remove the radiator cap or plastic coolant reservoir cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

Refer to 'Engine Overheating' in Chapter 6 if the engine overheats or loses a lot of coolant.

AUTOMATIC TRANSMISSION FLUID LEVEL

Check the fluid level at least once a month.

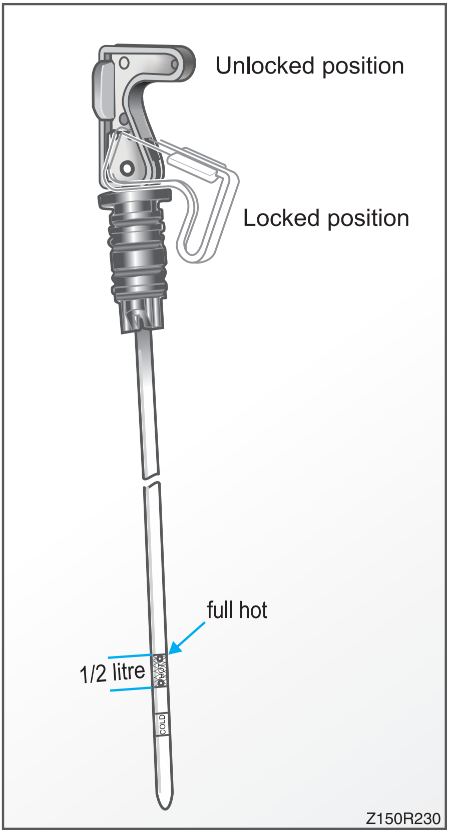
The dipstick handle on vehicles fitted with 4-speed automatic transmissions is located at the rear of the engine compartment, on the right side. Refer to previously in this chapter for automatic transmission dipstick location.

Note:

- Five-speed automatic transmissions are sealed for life and therefore do not have a dipstick.
- Dirt in the transmission can cause breakdowns, so be careful when checking or adding fluid.
- Check the fluid after the vehicle has been driven for at least 20 kilometres to ensure the fluid is hot.

To check transmission fluid level

1. Park the vehicle on level ground with the engine running.
2. Ensure that the transmission gear selector is in Park and that the park brake applied.
3. Unlock the handle and remove the dipstick.
4. Wipe it clean with a clean cloth or paper.
5. Insert the dip stick fully once more.



6. Remove it again and read the fluid level. The fluid level should be showing on the cross hatched Hot area. The level should never read over the full Hot mark.

To add transmission fluid

Use only Holden specified automatic transmission fluid. Refer to Chapter 8, Specifications for the correct type.

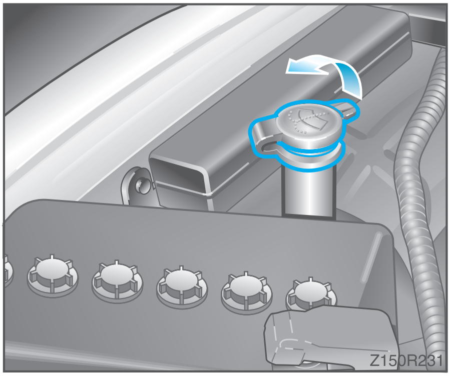
1. Add the fluid in the dipstick tube (the same opening as the dipstick is stored in).
2. Wait one minute for the oil to settle (clean up any spilled fluid).
3. Check the level on the dipstick with the engine running and add further fluid if necessary. Remember to always replace the dipstick and lock the handle down.

If the transmission fluid requires constant topping up, it could indicate that there is a leak or fault. Contact your Holden Dealer.

Note: The cold markings on the dipstick should only be used as an indication when initially filling the transmission after the fluid has been completely drained. It should be rechecked when hot.

WASHER FLUID LEVEL

The washer fluid reservoir is located in the engine compartment, near the battery. It is fitted with a flip top yellow cap. Refer to previously in this chapter for washer fluid reservoir location.



The container shown supplies water to the front windscreen washer.

As washer fluid is constantly used, top up the level weekly.

For a crystal clear windscreen, the correct amount of vehicle manufacturer’s washer fluid additive can be added. Refer to Chapter 11, Cleaning.

Note: Do not use ordinary soap or detergent as these not only froth up, but also damage the wiper rubbers.

Make sure the cap is secured.

BRAKE FLUID LEVEL

WARNING:

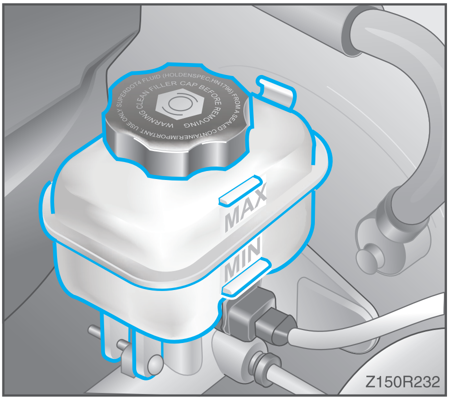
Brake fluid is poisonous and corrosive and will damage the paint finish of the vehicle if spilt.

Check the brake fluid level in the master cylinder weekly.

To check the brake fluid level

The fluid level is visible through the brake master cylinder reservoir. Refer to previously in this chapter for master cylinder reservoir location.

Maintain the level between the MIN and MAX markings.



If the fluid is between these levels, do not remove the master cylinder cap, as brake fluid exposed to the atmosphere will quickly absorb moisture.

To add brake fluid

1. Ensure that the ignition is turned off.
2. Wipe the sides of the cap clean and remove the cap.
3. Top up with heavy duty brake fluid which meets Holden specifications. Refer to Chapter 8 for the correct specification.

   WARNING:

   Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.

4. Secure the cap and clean up any spilled fluid.

Note: If the master cylinder requires constant topping up it could indicate that a fault exists. Contact your Holden Dealer immediately.

POWER STEERING FLUID LEVEL

Check the level after the vehicle has been driven for a while (at least 20 minutes) so that the fluid is warm. A convenient time is when stopping for fuel. The cold level check should only be used after the engine has not been running for at least 5 hours. However, the hot level check is always recommended.

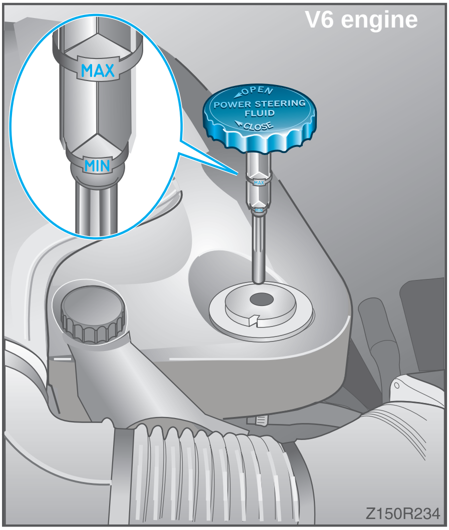
Refer to previously in this chapter for power steering reservoir location.

To check power steering fluid level

1. Wipe the sides of the cap clean.
2. Undo the cap anticlockwise to the safety stop; push down on the cap and turn it further anticlockwise, until the cap can be lifted off. The MIN (cold) and MAX (hot) level markings are on the dip stick attached to the cap.

   Note: The fluid level on vehicles fitted with V8 engines can also be viewed through the transparent reservoir. The MIN / MAX level markings are on the side of the reservoir.

   When the engine is hot the level should be at the hot MAX level.
3. When the engine is cold, the fluid level must be midway between MIN and MAX on the dipstick and COLD MAX on the reservoir bottle.

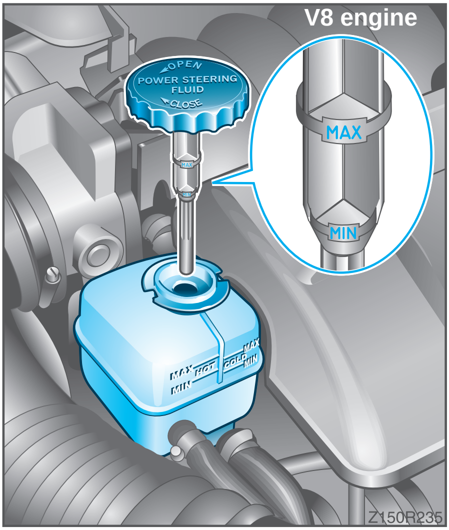


To add power steering fluid

Refer to Chapter 8, Specifications for the correct power steering fluid to use.

1. Ensure that the ignition is turned off.
2. Top up with power steering fluid which meets Holden specifications. Do not over fill the reservoir.
3. Secure the cap and clean up any spilled fluid.

Note: If the power steering fluid requires constant topping up, it could indicate that a fault exists. Contact your Holden Dealer.



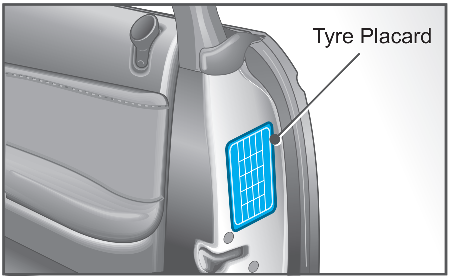
TYRES

Air pressure

Weekly checking of the air pressure of the tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of the tyres.

For constant long distance or rough road driving, daily checking is recommended.

The correct pressure for the tyres is shown on the tyre placard on the driver's door.



Z150R311

Increase the inflation pressure in the tyres according to the load on the vehicle.

If the vehicle is heavily loaded, the recommended pressure for the tyres is increased (refer to the tyre placard on the vehicle). As the tyres are operating under a greater load, the weekly air pressure check becomes even more important.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. Therefore, the pressure should be checked when the vehicle has been stationary for over 3 hours. If the tyres must be checked immediately after driving, increase the pressure shown on the placard by 10%.

Therefore, if the vehicle is loaded to half the maximum payload (as shown in Chapter 10), then the tyres should be inflated half way between the minimum and maximum pressures given on the tyre placard.

Vehicles driven for prolonged periods over rough roads, particularly in desert conditions, should use the cold tyre inflation pressure on the tyre placard for maximum load condition.

Always use a tyre pressure gauge to check the tyres; simply looking at the tyres is not sufficient. If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blowout at high speeds. If the pressure is too high, this can result in reduced traction, increased risk of a tyre blowout and poor tyre wear.

Remember to replace any valve dust caps or extensions, as this stops dirt and moisture from fouling the valves.

When checking the tyre air pressure, take a look at the condition of the tyre tread and inspect for stones or abnormal wear.

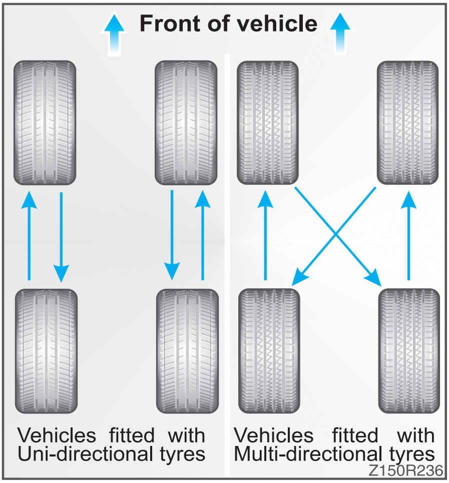
TYRES cont.

Tyre rotation

Front and rear tyres perform different jobs and can wear differently depending on factors such as; the types of roads driven on, driving habits, tyre pressures, wheel alignment and balance. Tyre condition is checked when the vehicle is serviced by a Holden Dealer. They are able to diagnose any unusual signs of wear. If the tyres are rotated it is recommended that the balance be checked at the same time.

WARNING:

The forward rotation direction of the Unidirectional tyres must match the Direction of Rotation Arrow on the sidewall of the tyre.


Front of vehicle
Vehicles fitted with Uni-directional tyres
Vehicles fitted with Multi-directional tyres
Z150R236

Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and unevenly. It can also cause the vehicle to pull to one side.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear. If you suspect any of these problems exist, have a wheel alignment and balance check carried out by your Holden Dealer.

Replacement and repair

Replacing the factory fitted wheels and tyres with non-specified wheels and tyres may affect the New Vehicle Warranty as well as the vehicle's insurance policy. Refer to the tyre placard on the vehicle for tyre size and load rating. Using a different size or type of tyre may affect such things as ride, handling, speedometer, vehicle ground clearance, tyre clearance or snow chain clearance.

Take care when using tyres with heavy treads, including tyres made for better grip in the wet. At sustained high speeds, these types of tyre run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer. Any doubts about the tyres on the vehicle should be referred to your Holden Dealer.

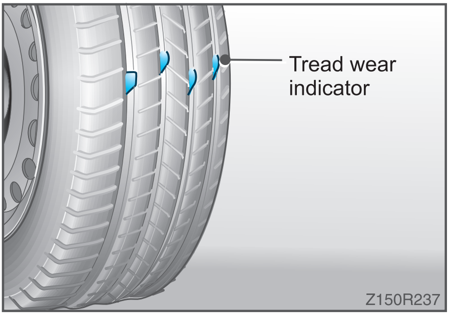
Tyres with a higher speed or load rating are acceptable, provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

TYRES cont.

Tyres should be replaced when:

- They are worn to the point where the tread indicators appear, or the cord or fabric is showing. The tyres originally fitted to the vehicle have built-in tread indicators. When only 1.5 mm of tread remains, these indicators show as plain bars across the tread pattern at regular intervals around the tyre.
- The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.



- The tyre has a bump or bulge in it, indicating some kind of internal damage.
- The tyre has a puncture, cut or other damage which can not be repaired because of the size or location of the damage.

Do not attempt to drive on the flat tyre more than is necessary to stop safely. Driving even a short distance can damage the tyre and wheel beyond repair. Tyres which have been repaired or retreaded are not capable of being driven safely at high speeds. Therefore, their use is not recommended.

BATTERY

WARNING:

- Batteries emit an explosive gas mixture which may be ignited. Therefore, you should keep sparks and flames away from the battery at all times. Never smoke near a battery.
- Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with plenty of water. In case of eye contact, flush with plenty of water and contact a doctor immediately. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.
- Take care with all metal objects and tools including items you may wear (for example, jewellery, rings and metal watch bands) near battery terminals.

Fluid level check

The fluid level of the battery is checked when the vehicle is serviced by a Holden Dealer. If the vehicle is operated in hot temperatures or at constant high speed the battery fluid level should be checked each month.

When checking the battery level, make sure the engine is not running. Each of the six cells must be individually checked. Use distilled water, as required, to keep the level just below the bottom of each split tube. Do not overfill.

Vehicles with V8 engines have a battery cover to keep the battery cool. The cover should always be securely in place when driving.

Refer to Chapter 6 for emergency starting when the battery is flat.

Replacement battery

Refer to Chapter 8, Specifications for the correct replacement battery specification.

Battery disconnection

The battery is recharged by the alternator when the engine is running. If the engine is not run for approximately 6 weeks, the battery will discharge, due to the power required by systems such as the security system. If the battery is disconnected it will discharge anyway after approximately 12 weeks.

If the battery is disconnected when leaving the vehicle for a long period of time, it is recommended that the battery be 'trickle fed' on a battery charger overnight, before installing it back into the vehicle.

If the battery is disconnected for any reason:

- Some trip computer displays will be reset; trip time, trip distance, fuel used, average fuel, average speed and stop watch.
- The personal identity key system may 'forget' some settings. Your adjustments will be remembered by the key next time you adjust the feature. Refer to Chapter 2.

Refer to Chapter 6 for emergency starting when the battery is flat.

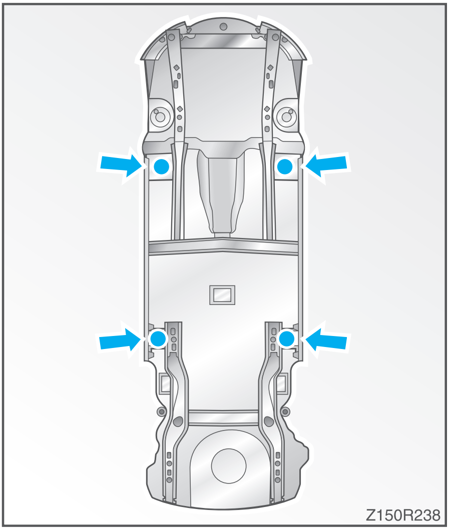
TROLLEY JACK LOCATIONS

Always use the jack locations shown in Chapter 6 when using the original jack supplied with the vehicle. This jack has been designed to correctly and safely lift the vehicle, provided the warnings in Chapter 6 are observed.

However, if using a trolley jack to raise the vehicle, it is important that the jack be positioned under the suspension cross member or hoist pad locations.

Note: Do not jack under the suspension control arms

The vehicle should always be supported by jack stands when raised.



CHAPTER 8

Specifications

Page

8-2 Specifications – V6 engine
  Lubricants and fluids
  Power and torque
  Capacities
8-3 Specifications – V8 engine
  Lubricants and fluids
  Power and torque
  Capacities
8-4 General specifications
  Dimensions
  Body lubricants
  Air conditioning specifications
8-5 Identification labels

SPECIFICATIONS – V6 ENGINE

Engine Type	ALLOYTEC V6
Engine capacity	3565 cc
Engine power and torque (ECE)	Please refer to http://www.holden.com.au
Engine oil specification	Use SAE 5W or 10W/30 SL GF-3 oil.
Refill engine oil capacity	6.5 litres approximately (including filter)
Coolant specification	50% clean fresh water and 50% coolant, conforming to Holden Specification Number HN 2043, Part Number 92140054 (1 litre) or 92140057 (5 litres). In addition, 3 pellets, Part Number 92140053 must be added when coolant is replaced.
Coolant capacity	12 litres approximately
Automatic transmission fluid	Dexron® III
Brake and clutch fluid	Heavy duty brake fluid, conforming to Holden Specification Number HN 1796 (Super DOT 4)
Power steering fluid	Dexron® III
Fuel tank capacity	75 litres
Battery	Low maintenace, 12 volt, 85 minutes reserve capacity, 430 Cold Cranking Amps (CCA)

SPECIFICATIONS – V8 ENGINE

Engine Type	GENERATION III V8
Engine capacity	5665 cc
Engine power and torque (ECE)	Please refer to http://www.holden.com.au
Engine oil specification	Use SAE 5W or 10W/30 SL GF-3 oil.
Refill engine oil capacity	6.2 litres approximately (including filter)
Coolant specification	50% clean fresh water and 50% Extended life anti-freeze coolant conforming to Specification Number GM 6277M, Part Number 92145527 (5 litre).
Coolant capacity	11 litres approximately
Automatic transmission fluid	Dexron® III
Refill automatic transmission capacity	5 litres approximately
Brake fluid	Heavy duty brake fluid, conforming to Holden Specification Number HN 1796 (Super DOT 4)
Power steering fluid	Dexron® III
Fuel tank capacity	75 litres
Battery	Low maintenance, 12 volt, 85 minutes reserve capacity, 430 Cold Cranking Amps (CCA)

GENERAL SPECIFICATIONS

Dimensions (mm)

Length	5193
Width – excluding mirrors	1847
Height	1444
Wheel base	2939
Overhang – front	986
Overhang – rear	1268
Front track – with alloy wheels	1559
Rear track – with alloy wheels	1577

Note: Refer to Chapter 10, Tow and load, for kerb weights and axle loads.

Body lubricants

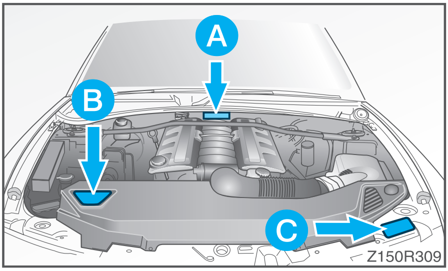
Bonnet catch	NLGI No. 1 Lithium Grease (with Zinc Oxide) meeting Manufacturer's Specification HN 1225
Door hinge grease	NLGI No. 1 Lithium Grease (with Zinc Oxide) meeting Manufacturer's Specification HN 1225
Check link housing	NLGI No. 2 Polyurea Grease (mineral oil base) 1.2 g applied to housing
Check link arm	NLGI No. 2 Lithium Complex Grease 1.2 g applied to arm
Front door lock cylinder	Powdered Graphite applied through key aperture; DO NOT OIL

Air conditioning specifications

	V6	V8
Refrigerant type	R-134A	R-134A
Refrigerant charge	800 +/- 25 g	800 +/- 25 g
Compressor oil type	Polyalkylene glycol, RL-897 or Daphnee per SD2-323	Polyalkylene glycol, PAG2 type (GM part no. 12345923 or equivalent)
Compressor oil refill capacity	150 +20/-10 ml	220 +20/-0 ml

WARNING: The air conditioning system should be serviced by qualified personnel only. Improper service methods may cause personal injury.

IDENTIFICATION LABELS



– Safety Compliance Plate

Shown on the plate are the vehicle Make, Model Series, Date of Manufacture, Vehicle Identification Number (VIN), approved seating capacity, Gross Vehicle Mass (GVM) on utility and Approval Number.

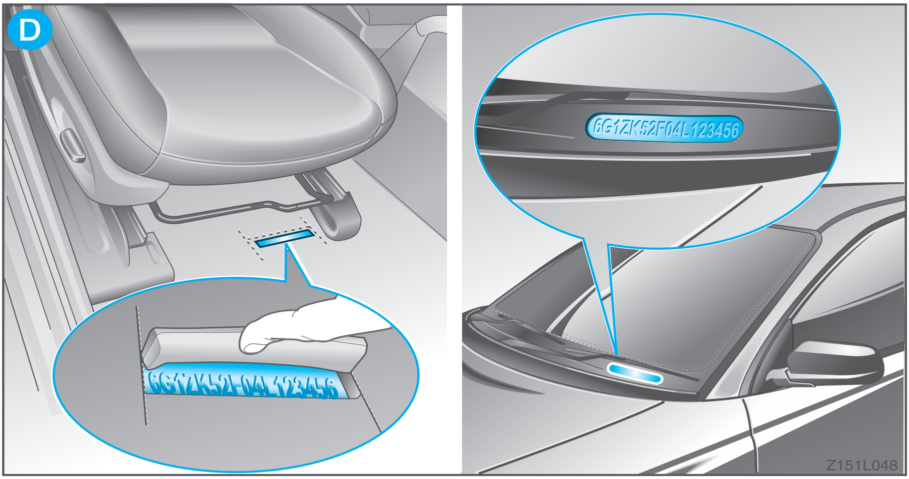
– Cooling system / Air conditioning label

This label shows the warnings for the air conditioning and cooling system as well as information on the air conditioning refrigerant and compressor oil.

˜ Body and Option Plate

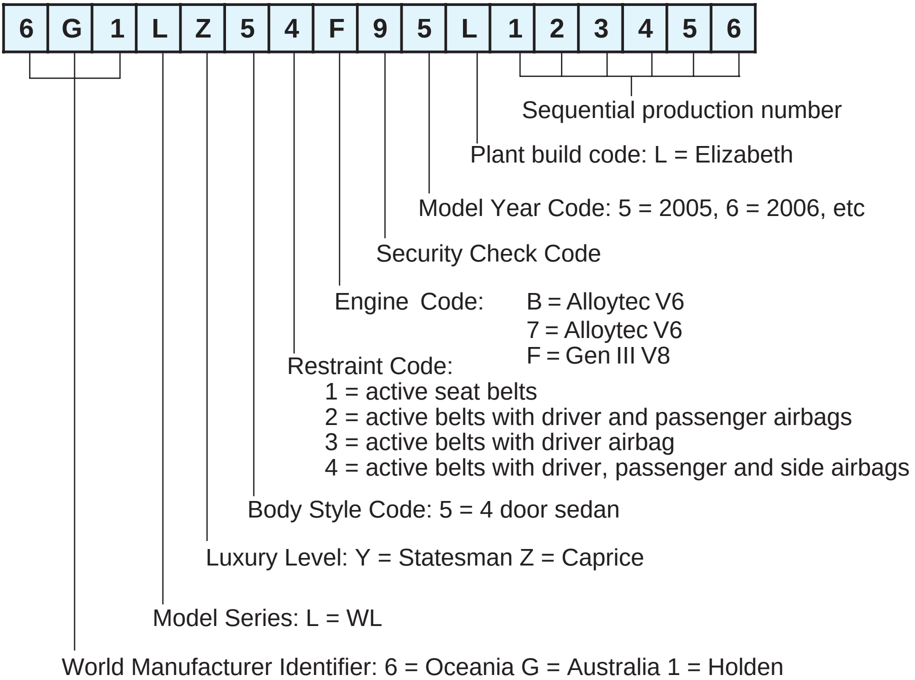
This plate shows model identification, Vehicle Identification Number (VIN), paint and trim colour combination, air conditioning, paint number, engine, transmission, axle ratio options, suspension options (where applicable) and build date. The build date is defined as ‘the date of manufacture’ by calendar month and year in which the body shell and powertrain sub-assemblies are co-joined and the vehicle is driven or moved from the productions line.

IDENTIFICATION LABELS cont.



™ ISOVIN plates

Each vehicle has its own, individual International Standards Organisation Vehicle Identification Number (ISOVIN), which is shown both behind the windscreen on the left side and under the right-hand front seat, under a carpet flap.



6	G	1	L	Z	5	4	F	9	5	L	1	2	3	4	5	6

Sequential production number

Plant build code: L = Elizabeth

Model Year Code: 5 = 2005, 6 = 2006, etc

Security Check Code

Engine Code: B = Alloytec V6
7 = Alloytec V6
F = Gen III V8

Restraint Code:
1 = active seat belts
2 = active belts with driver and passenger airbags
3 = active belts with driver airbag
4 = active belts with driver, passenger and side airbags

Body Style Code: 5 = 4 door sedan

Luxury Level: Y = Statesman Z = Caprice

Model Series: L = WL

World Manufacturer Identifier: 6 = Oceania G = Australia 1 = Holden

CHAPTER 9

Customer Assistance

Page
9-2 Customer assistance
9-3 For New Zealand Holden owners
9-4 Roadside assistance
9-6 New vehicle warranty
9-8 Parts and accessories warranty
9-9 Warranty questions and answers

CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation, servicing or the validity of original equipment supplied with your vehicle will be handled by your Holden Dealer's Sales and Service Department.

We realise however that, with the best intentions, misunderstandings do occur sometimes.

+

Therefore, we suggest you discuss any concern with one of the Holden Dealer's management people. If you have not received satisfaction from the Sales Manager or Service Manager – go to the General Manager or to the Dealer Principal.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

%

The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is:

9646 5466

Outside the Melbourne Metropolitan area, the number is:

1800 033 349

If your concern relates to parts / accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden Service Parts Operations on (03) 9797 7341.

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

)

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

-

- Your name and address.
- Telephone numbers, both private and business.
- Servicing Dealer's name and address.
- Vehicle model.
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of the service booklet in your vehicle's glovebox.
- Date of purchase.
- Current odometer reading.

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of the service booklet in your vehicle's glovebox.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

FOR NEW ZEALAND HOLDEN OWNERS

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand. Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glovebox wallet.

% New Zealand Assistance can be reached on:

0800 HOLDEN (0800 465 336)

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Assistance.

) If you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne,
Australia, 3001.

ROADSIDE ASSISTANCE

3 YEAR
24 HOUR ROADSIDE ASSISTANCE

Our commitment to your satisfaction

Holden’s Roadside Assistance is part of the unequalled commitment by Holden to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing and now beyond to the open road, Australia wide.

We hope the need never arises, but if it does, we’ll be there to help through Holden Roadside Assistance.

How does Holden Roadside Assistance work?

Holden Roadside Assistance is provided by Holden Ltd and delivered by the collective resources of the Australian Automobile Clubs and Associations including the constituents of Assist Australia (AA). To request a copy of the terms and conditions, contact Customer Assistance Service Line on 1800 033 349.

Which vehicles are covered by the service?

As of 1st November 1993 all new Holden passenger and light commercial vehicles are covered for 36 months from the date of first registration.

Holden Roadside Assistance is extended to private and business vehicles, taxis, rental companies, all government and fleet operators.

What will Holden Roadside Assistance do for me?

Holden Roadside Assistance is designed to get you mobile on any road that is trafficable to normal two wheel drive vehicles. In the event of the unexpected happening, from your keys being locked in your vehicle to mechanical and accident advice, help is readily available by simply calling the toll free number 1800 817 100.

All Holden luxury vehicles receive the added benefits of Holden Roadside **Ultra** Assist which includes accommodation, alternative transport, rental vehicle, assistance in case of accident, theft and medical emergency and Australia wide vehicle recovery.

Can I upgrade to Roadside Ultra assist?

Yes, owners can upgrade to Holden Roadside **Ultra** Assistance for a fee by dialling 1800 645 668. To request a copy of the **Ultra** terms and conditions, contact Customer Assistance Service Line on 1800 033 349.

ROADSIDE ASSISTANCE cont.

When do the benefits begin?

Cover begins from the date of first registration. An interim card entitles you to immediately receive all the benefits of Holden Roadside Assistance.

Where can I get Roadside Assistance?

Holden Roadside Assistance is available to you at home, or at the roadside, anywhere in Australia, should you need it. In remote or sparsely populated areas you may experience delays in obtaining Roadside Assistance due to your location, the availability of the service provider and accessibility.

Is there a membership or joining fee?

No, Holden Roadside Assistance is complimentary with every new Holden passenger vehicle and light commercial vehicle for 36 months from the date of first registration.

What will Holden Roadside Assistance cost me?

Materials, fuel and spare parts must be paid for at the time of service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden's warranty can be claimed by contacting your local Holden Dealer.

What happens if I sell my vehicle?

Holden Roadside Assistance stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the balance of the Holden Roadside Assistance. The new owner simply registers for the service by using the change of ownership form supplied in the Roadside Assistance booklet.

How do I call for assistance?

Simply call Holden Roadside Assistance toll free on 1800 817 100 from anywhere in Australia. For further information regarding the service and full terms and conditions, refer to the Roadside Assistance Kit in the glovebox or call the toll free Customer Assistance Service Line on 1800 033 349.

NEW VEHICLE WARRANTY CERTIFICATE

New Vehicle Warranty application

This Warranty is given by Holden Ltd, ABN 84 006 893 232, ('Holden'). The Warranty applies to the vehicle identified on the inside front cover of the service booklet in your vehicle's glovebox. It is provided to the original and subsequent owners / operators driving the vehicle within Australia during the Warranty Period.

This Warranty is given in addition to all rights conferred by law on that person.

Australian vehicles

This Warranty is only applicable to vehicles purchased and operated in Australia.

Owners of vehicles purchased in Australia but operated overseas should consult the local Dealer in the country of operation about any Warranty applicable to their vehicle. This Warranty does not apply for Holden vehicles exported overseas. Similarly, this Warranty is not provided for vehicles purchased overseas and imported into Australia.

Repairs covered

Subject to the exclusions shown on the following page, this Warranty covers the correction, during the Warranty Period, of any vehicle defect related to materials or workmanship and advised to a Holden Dealer or Authorised Service Outlet, by repair or at Holden's option by replacement.

Warranty Period

The coverage commences from the date of delivery (or in the case of a demonstrator vehicle the date when the vehicle was first placed into service by the Dealer). The coverage expires at the end of the period of 3 years after the commencement date or after the vehicle has travelled 100 000 kilometres, whichever occurs first.

No charge

Warranty work undertaken (including parts and labour) will be carried out at no cost to the vehicle owner. However, this work should not be confused with servicing specified in the Maintenance schedule in the service booklet for which a charge is payable.

NEW VEHICLE WARRANTY CERTIFICATE cont.

Warranty exclusions

- **Damage**
  Your Warranty does not extend to the following damage:
  Damage caused by an accident, fire, theft or moving objects striking the vehicle.
  Damage caused by industrial fallout, chemicals or sealants.
  Damage caused by atmospheric fallout or flood, hail, salt, etc.

- **Maintenance items**

  Services such as brake adjustment, replacement of filters, wiper rubbers etc., which are required as part of normal vehicle maintenance (refer to the service booklet in your vehicle's glovebox).

- **Tyres**

  The tyres (and tubes where applicable) fitted to your vehicle are not covered by this Warranty. However, they may be covered by the tyre manufacturer.

- **Batteries**
  Batteries are warranted for 12 months.

- **Misuse**
  This Warranty does not cover damage caused by:
  (a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or neglect
  (b) operation of the vehicle after the defect is known
  (c) failure to carry out proper maintenance services (refer to the service booklet in your vehicle's glovebox)
  (d) use of incorrect types and grades of fuel, oil or lubricants
  (e) alteration of the vehicle by anyone not authorised by Holden
  (f) fitting of parts or accessories not recommended by Holden
  (g) any work carried out on the vehicle by anyone except an authorised Holden Dealer or authorised Service Outlet.

PARTS AND ACCESSORIES WARRANTY

Holden warrants Holden approved Parts and Accessories ('Parts' and 'Accessories') for the periods and on the conditions set out below. The Warranty covers the correction, during the relevant Warranty Period, of defects in any such Parts and Accessories, by repair or at Holden's option by replacement.

- **Accessories installed to the new vehicle**

  Holden approved Accessories installed by a Holden Dealer or authorised Service Outlet to the new vehicle at the time of purchase are covered together with the New Vehicle warranty for the period of 3 years or 100 000 km, whichever occurs first.

- **Parts and Accessories installed after new vehicle delivery by a Holden Dealer or authorised Service Outlet**

  Parts and Accessories installed after new vehicle delivery by a Holden Dealer or authorised Service Outlet are covered for 2 years or 50 000 km (whichever occurs first). If the vehicle is still within the New Vehicle Warranty the Parts and Accessories are covered by the longer of:

  2 years / 50 000 km (whichever occurs first)

  or

  the end of the New Vehicle Warranty.

  As an example, an Accessory installed in a 7 month old vehicle would be covered until the end of the New Vehicle Warranty; an Accessory installed in a 2½ year old vehicle would be covered until the end of 4½ years or a further 50 000 km from when the Accessory was installed.

- **Purchased at retail or trade**

  Parts and Accessories purchased at trade or retail and installed by other than a Holden Dealer or authorised Service Outlet are warranted for 1 year from the date of purchase. Please keep a receipt to support warranty claims.

  The Warranty does not cover the labour costs of removal / reinstallation of Parts and Accessories when installed or rectified by other than a Holden Dealer or authorised Service Outlet.

- **Parts and accessories warranty exclusions**

  The tyres (and tubes where applicable) are not covered by this warranty. However, they may be covered by the tyre manufacturer.
  Batteries are warranted for 12 months from date of purchase.
  Parts which are required as part of normal vehicle maintenance are warranted against manufacturing defect at the time of installation. Consult your Holden Dealer to confirm the period of this warranty.

WARRANTY QUESTIONS AND ANSWERS

This section is designed to assist you in understanding the Holden Warranty provided with your new vehicle.

The following are some of the most frequently asked questions for which detailed answers are provided.

Q 1. How do I go about obtaining Holden Warranty service?

It is the responsibility of the Selling Dealer to provide Holden Warranty service, therefore, you should take your vehicle to the Selling Dealer whenever Holden Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of the service booklet will be required by the Dealer.

Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the Holden New Vehicle Warranty?

You should contact the nearest Authorised Holden Dealer or Holden Customer Assistance Service (refer further in this chapter) as soon as possible, and arrange for that Dealer to carry out the required Holden Warranty Service.

Q 3. What should I do if, in an emergency, Holden Warranty service is required and an Authorised Holden Dealer is not available to provide such service at the time?

If, in an emergency, a repair, replacement or adjustment (covered by the Holden New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is not practical for you to go to an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the authorised Holden Dealer who would normally provide you with Holden Warranty service. You must also take your vehicle to the Authorised Holden Dealer for inspection of the service and / or completion of any required Holden Warranty service, as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Dealer or Holden Customer Assistance Service, prior to repairs being commenced.

Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden Warranty?

No, these items are not covered. Holden warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the Holden New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the Holden New Vehicle Warranty, but any claim based on those rights should be separately pursued.

WARRANTY QUESTIONS AND ANSWERS cont.

Q 5. Will I have to pay for maintenance costs during the Warranty Period?

Maintenance costs are not covered by the Holden New Vehicle Warranty. The Maintenance Schedules in the service booklet (in your vehicle's glovebox) specify the *minimum* maintenance required for your vehicle operating under normal conditions.

The Maintenance items (except where they are required as a result of defects in materials or workmanship) for which you will have to pay include:

- Engine tune-up, including spark plugs replacement.
- Replacement of all filters (including LPG lock off filter – if fitted), engine and other belts, hoses (including LPG hoses – if fitted) wiper blades and clutch linings.
- Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etc., after 1500 km.
- Carbon and sludge removal.
- Maintenance servicing of emission control system devices.
- Adding to (or replacing) lubricants.
- Adding to (or replacing) air conditioning refrigerant, after 1500 km.
- Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
- Wheel balancing – after 5000 km.
- Wheel alignment.
- De-dusting or de-glazing of brake linings or pads – after 1500 km.
- Brake lining wear or damaged brake components due to lining wear.
- Clutch lining wear or damaged clutch components due to lining wear.
- Brake disc pad or disc wear.
- Battery recharging.
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment – after 1500 km.
- Door, or bonnet lock adjustments.
- Glass or channel adjustments – after 1500 km.
- Body rattle, squeaks and general tightening of bolts, fasteners and fittings – after 1500 km.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.
- Normal wear and tear to trim components.

Q 6. Are my tyres covered by the Holden New Vehicle Warranty?

No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. Any Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

WARRANTY QUESTIONS AND ANSWERS cont.

Q 7. Will I have to pay for any costs or expenses in connection with the provision of Holden Warranty service?

All parts and labour used in carrying out Holden Warranty service at the premises of the servicing Holden Dealer are free of charge. Whenever Holden Warranty service is to be carried out by the servicing Holden Dealer it is your responsibility to deliver your vehicle to the servicing Holden Dealer's premises.

If, as a result of a defect which is covered by the Holden New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required Holden Warranty service, Holden will accept reasonable towing costs to move your vehicle to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holden Dealer and / or Holden Customer Assistance Service (refer to further on in this chapter) to obtain guidance.

Q 8. Would my vehicle's engine benefit from fuel additives, oil additives or coolant additives not marketed by Holden?

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives is not recommended; their use will not only increase operating costs, but may also be detrimental to the operation of your vehicle and may affect the validity of your New Vehicle Warranty.

Only the fluids and lubricants referred to in this handbook should be used.

UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN PRODUCTS

No Holden Dealer or other person is authorised or permitted to give or make any statement, assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden product or in connection with the supply of any Holden product, which is at variance with any written statement, assertion or undertaking on any of these subjects given or made by Holden in its published sales literature, and Holden does not accept any responsibility for such unauthorised action.

CHAPTER 10

Tow and load

Page

10-2 Towing
10-3 Towing equipment
10-4 Loading the vehicle
10-6 Attaching a trailer
10-7 Towing and loading equipment
10-8 Towing precautions
10-10 Convenience net

TOWING

Trailers

The word ‘trailer’ is used throughout this section and is intended to include all types of towed vehicles, such as caravan, boat trailer or any other special purpose trailer.

Towing

The vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a trailer.

Refer to the chart on the facing page to see which equipment is specified as essential and which equipment is recommended for the weight you are towing. Your Holden Dealer will help supply and install towing equipment to suit your requirements.

Overloading

Never exceed the loads given for the towing equipment fitted to the vehicle. For your safety and the vehicle's durability, all essential equipment must be fitted. Otherwise you may void the New Vehicle Warranty, to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of the vehicle.

Driving speed

When towing up to 1600 kg the maximum driving speed is as per the local law.

When towing between 1600 kg and 2100 kg the maximum driving speed must not exceed 80 km/h.

WARNING:

Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment or for loss or injury caused by use of such equipment. The use of such equipment may void your New Vehicle Warranty, to the extent that Holden considers the non-recommended equipment affects the specifications or quality of your vehicle. It is inadvisable to mix and match different brands of towing equipment, as equipment is usually designed as an integrated package.

TOWING EQUIPMENT

TOW LOAD	ESSENTIAL EQUIPMENT	RECOMMENDED EQUIPMENT
Up to 1200 kg	Holden 1200 kg rated tow bar	A load distribution hitch is recommended if towing a single axle trailer that weighs more than 750 kg when loaded
	Holden trailer wiring harness	
	Electric or hydraulic brakes on the trailer if the trailer weighs more than 500 kg when loaded	
Between 1200 kg and 1600 kg	Holden 1600 kg rated tow bar	A load distribution hitch is recommended if towing a single axle trailer
	Holden trailer wiring harness	
	Electric or hydraulic brakes on the trailer	
	Heat shield for the rear muffler and the centre bearing	
Between 1600 kg and 2100 kg	Holden 2100 kg rated tow bar	A load distribution hitch
	Holden trailer wiring harness	When towing over 80 km/h with a V6 engine, it is highly recommended to use synthetic differential oil
	Electric or hydraulic brakes on the trailer	
	Heat shield for the rear muffler and the centre bearing	
	Superlift shock absorbers or level ride suspension	

LOADING THE VEHICLE

Maximum vehicle payload

Overloading is a safety hazard and could also shorten the life of the vehicle.

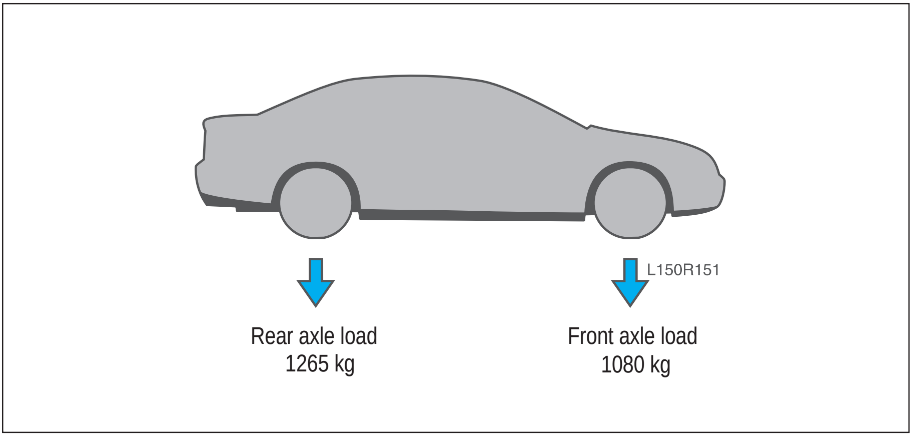
The typical recommended carrying capacity of the vehicle is, typically, five occupants plus 68 kg luggage (408 kg load in total).

Do not exceed the maximum axle loads shown in the diagram below, including the weight of any options or accessories fitted to the vehicle.

Remember to take the tow ball load and roof rack load into account when determining the rear axle load.

If unsure, the vehicle should be weighed at a weighbridge.

Maximum front and rear axle loads



Level ride suspension (if fitted)

The level ride system automatically adjusts the suspension level to help maintain a constant vehicle level. When a load is placed on the rear of the vehicle, the suspension is lifted up to its previous unloaded level.

This improves ride and handling when the rear of the vehicle is loaded, for example, when towing a caravan or when carrying passengers on the rear seat. This also means that headlight aim, rear view mirror adjustment and rear ground clearance will be almost unaltered when the vehicle is loaded up.

A delay of approximately 25 seconds prevents the vehicle level being altered every time you drive over a bump.

The level ride system only responds when the ignition is on and if the load is at least equivalent to two rear seat passengers in the vehicle.

WARNING – IF A LOAD EQUALISER HITCH IS FITTED:

When hitching a trailer it is important that the ignition is switched off before hitching the trailer and loading the vehicle. The ignition must remain off until after the load equaliser hitch is correctly adjusted, so that the level ride suspension alters the height afterwards.

LOADING THE VEHICLE cont.

Notes on loading the vehicle

- Heavy objects in the boot should be placed as far forward as possible against the rear seat backrests. When stacking objects, the heavier objects should be placed at the bottom. Unsecured objects in the boot could be thrown forward with great force during heavy braking or in an accident.
- Heavy objects can slip when the vehicle is braked heavily or driven around a bend; the handling of the vehicle may change.
- Do not place objects in front of the rear window or on the dashboard above the instrument panel. They are reflected in the glass, obstruct the driver's view and may be thrown through the vehicle in the event of heavy braking.
- Driving with a roof load increases the sensitivity of the vehicle to cross winds and affects vehicle handling owing to the higher centre of gravity of the vehicle.
- Do not place objects in the area that the airbags inflate. Objects can cause injury if the airbags are triggered.

Roof racks (if fitted)

Distribute the load evenly and secure tightly with straps so that it cannot slip. Roof rack loads alter the handling of a vehicle, due to a change in the centre of gravity. When carrying loads on the roof rack, avoid hard braking, abrupt swerving or sharp steering.

WARNING:

The load, including the weight of the roof rack, must not exceed 50 kg and should be evenly distributed.

Note: Remember the weight of the roof rack and its load must be included when calculating the total load.

Carrying gas cylinders in vehicles

WARNING:

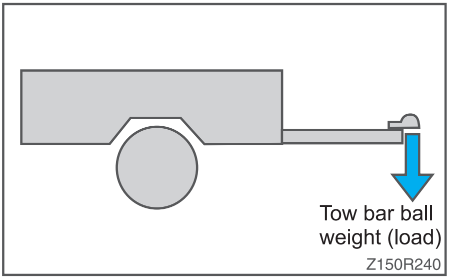
Gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around, and where possible, placed in the load area of the vehicle. It is recommended that if gas cylinders are frequently transported that a purpose-built carrying compartment be used. Transportation of gas cylinders is regulated by legislation in some states.

ATTACHING A TRAILER

Recommended procedure for attaching a trailer

If a trailer is hitched to the vehicle, it places a weight on the tow bar. This weight is called the 'tow bar ball weight' or ‘tow ball load’.

It is recommended that the tow bar ball weight should be 10% of the packed trailer weight. This can be adjusted by correctly packing the contents of the trailer For example, by moving items forwards or backwards within the trailer so as to change the balance of the trailer.

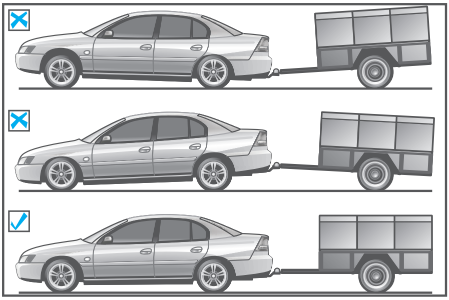


If the tow bar ball weight is too light or too heavy, the steering and handling of the vehicle may be affected.

All towing (before you begin)

Axle loads must not be exceeded when the tow bar ball weight is included. Refer previously in this chapter for maximum axle loads. If maximum axle loads are exceeded, sufficient weight should be removed from the rear of the vehicle and transferred onto the trailer.

Ensure the weight of the packed trailer is not greater than the towing capacity of the Holden approved tow bar package fitted to the vehicle.



Z150R241

1. Connect the trailer to the vehicle.

When towing over 750 kg

2. Adjust superlift shock absorbers, if fitted. Refer to previously in this chapter for requirement of superlift shock absorbers.

   Note: If towing at maximum trailer capacity, apply the maximum of 300 kPa pressure.

3. Adjust load distribution hitch so that the vehicle and trailer are level with the ground (if level ride suspension is fitted).

Example:

- A sedan loaded with five occupants (with an average weight of 68 kg each) and 68 kg of luggage in the boot. This is the maximum load allowable.
- A trailer is then hitched up, weighing 500 kg when loaded. The trailer has been correctly balanced providing 10% of its weight on the tow bar. This translates to:

68 kg	(existing luggage)
+ 50 kg	(10% of trailer weight)
= 118 kg	loaded on the vehicle

  The vehicle is now overloaded at the rear.

- Therefore, move 60 kg of luggage into the trailer. This now translates to:

8 kg	(luggage)
+ 56 kg	(10% of the trailer, which now weighs 560 kg)
= 64 kg	loaded on the vehicle

The vehicle and trailer are now correctly loaded, as this weight is under 68 kg.

TOWING AND LOADING EQUIPMENT

Load distribution hitch (if fitted)

- A load distribution hitch is recommended when towing more than 750 kg.
- A load distribution hitch is designed to raise the rear of the vehicle and transfer a portion of the load to the front wheels when the loaded trailer is hitched.
- The loaded vehicle and trailer should be level to the ground.

WARNING – IF A LOAD EQUALISER HITCH IS FITTED:

When hitching a trailer it is important that the ignition is switched off before hitching the trailer and loading the vehicle. The ignition must remain off until after the load equaliser hitch is correctly adjusted, so that the level ride suspension moves the height afterwards.

Booster springs and superlift shock absorbers (if fitted)

The use of booster springs or superlift shock absorbers does not increase the carrying capacity of the vehicle. Do not exceed maximum loads for the vehicle, as the overloading of axle parts may shorten the life of the vehicle.

However, superlift shock absorbers do allow adjustment of the vehicle’s height, so that the vehicle has improved handling and better ground clearance in rough terrain when the vehicle is heavily loaded.

WARNING:

- Do not drive with superlift shock absorbers inflated when the vehicle is not loaded, as vehicle handling is affected. The vehicle should be at normal level.
- Always ensure that superlift air pressures are within the minimum and maximum pressures shown on the tag attached to the air pressure valve. When towing 2100 kg the superlift shock absorbers should be adjusted to 300 kPa.

Towing with Electronic Stability Program (if fitted)

When towing with a vehicle fitted with the ESP option, you may hear the noise of the ESP modulator working. The ESP is reacting to the vehicle movement caused by the trailer, which mainly occurs during cornering. This is considered normal when towing heavier trailers.

TOWING PRECAUTIONS

- When heavily loading the vehicle or when towing, the tyres should be inflated to the maximum recommended pressure. Refer to Chapter 7 for tyre placard location and information about tyre pressures. Also refer to ‘Loading the vehicle’ in Chapter 4 for driving information with increased loads.
- Ensure that a load distribution hitch is correctly distributing the ball load and that superlift shock absorbers (if fitted) are adjusted correctly. Refer to previously in this chapter.
- Tighten the tow ball retaining nut to 175 Nm (Newton metres) and check the torque frequently.
- The vehicle will handle differently when towing. It is a good idea to make a couple of short distance trips with the trailer before setting off on the longer journey.
- Have the vehicle correctly maintained and serviced.
- Have the trailer maintained and serviced, with particular attention given to condition of brakes, tyres, suspension, wheel bearings, towing coupling and lighting.
- Use an extended-arm mirror on both sides of the vehicle.
- Headlights may need re-aiming after the loaded caravan has been hitched, particularly if a load distribution hitch is not used.
- Use a lower gear, rather than the brakes, when descending steep hills.
- If the trailer moves off the road behind you, allow the passenger side wheels of the vehicle to move off as well. When it is safe to do so, carefully steer back on to the road. A sudden attempt to steer back could make the vehicle swerve dangerously.
- To stop the automatic transmission constantly changing in and out of top gear, it is recommended that the 'Power' mode be selected when towing. Refer to Chapter 4, for selection of 'Power' or 'Normal' modes.
- Do not use axle-mounted hitches. They can cause damage to the axle housing, wheel bearings, wheels and tyres.
- Ensure that the tow bar does not obscure the rear licence plate. If necessary, remove the tow bar tongue when it is not required for towing.
- If a tow bar is removed:
  - Be certain to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.
  - The Rear Park Assist (RPA) will require adjustment to allow for the tow bar removal. Refer to Chapter 1 for adjustment details on the RPA.
- Trailer Brakes:
  - Trailer brakes are recommended on trailers weighing 500 kg and over when loaded. The brakes on the trailer must be designed to cope with the braking requirements of that trailer under all towing conditions, without adversely affecting the brakes on the vehicle.
  - Different types of brake signalling devices are available for trailers, such as electric, overrun or hydraulic signalling.
  - If a hydraulic signalling type is used, it must not displace more than 0.21 cc of fluid during braking. It must not be fitted to the front brake system, only to the rear brake system.
  - While no recommendation is made by Holden with regard to the manufacturer of the brake system, the specifications issued by PBR indicate that their unit meets Holden's requirements.

TOWING PRECAUTIONS cont.

Running-in when towing

It is recommended that the new vehicle be driven for at least 1500 km before towing. If the vehicle must tow before this do not exceed 80 km/h. The same applies if the vehicle is fitted with a new or reconditioned engine, transmission or rear axle.

Vehicle maintenance

More frequent vehicle maintenance is required when using the vehicle to pull a trailer. Refer to service booklet in the vehicle's gloxbox.

Kerb weights

Local laws may specify that the load being towed must not exceed the weight of the vehicle regardless of the tow rating of the vehicle. Kerb weight is the mass of the vehicle in running order unoccupied and unloaded with all fluid reservoirs filled to nominal capacity including fuel, with all standard equipment, but without options and accessories.

	Alloytech V6 engine	**Gen III V8 engine**
Statesman	1686 kg	1727 kg
Caprice	1728 kg	1772 kg

Note: The vehicle weights listed are estimates based on preproduction vehicles, and although correct at the time of printing, are subject to change. When the actual weight of a particular vehicle is needed, it is recommended that the vehicle be weighed on a suitable weighbridge.

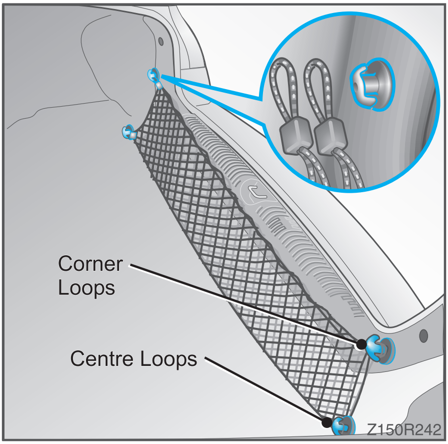
CONVENIENCE NET (if fitted)

WARNING:

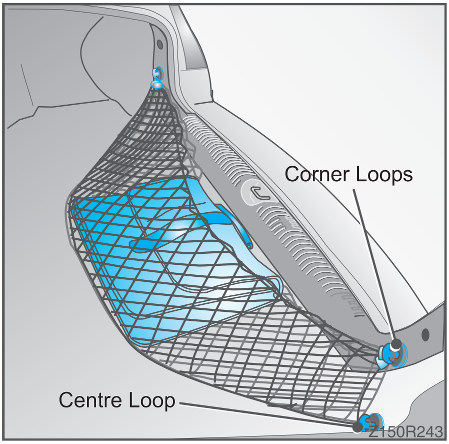
- Avoid eye injury. Do not overstretch. Always keep face and body out of recoil path. Do not use when strap has visible signs of wear or damage.
- The maximum load capacity of the net is 15 kg. That is, if an object weighs 15kg, only one object can be held by the convenience net.
- Do not use the net external to the vehicle.

The convenience net is provided inside the boot to secure goods. Six hooks are provided in the vehicle (two on the left side, two on the right and two behind the rear seats) and six loops are provided on the convenience net. This allows different ways of attaching the net to accommodate different sized objects.

When the net is not required for big objects, attach the four corner loops of the net to the top two hooks on the vehicle (two on one side, two on the other) and attach the net's two centre loops to the bottom hooks on the vehicle.

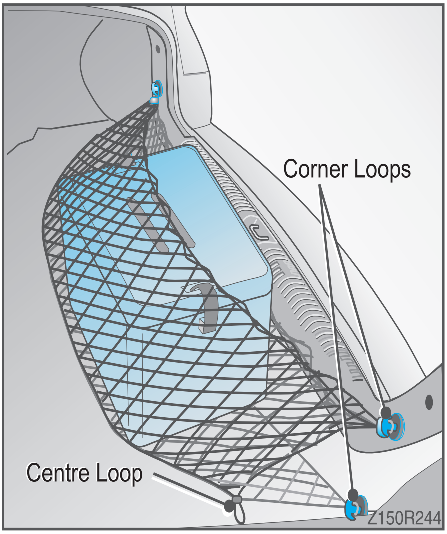


When the net is required for holding objects such as a briefcase or groceries, the net can be opened and the objects placed inside.

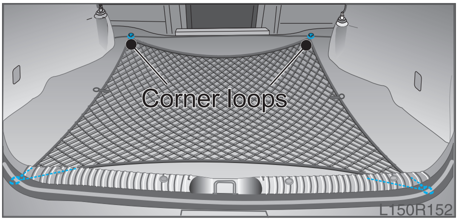


CONVENIENCE NET (if fitted) cont.

If larger objects, such as a car fridge, are to be secured, the net can be hooked as shown (with a corner loop on each hook and the centre loops unhooked).


Corner Loops
Centre Loop
Z150R244

To use the net in the flat position, use the corner loops as shown.


Corner loops
L150R152

CHAPTER 11

Cleaning

Page

INTERIOR CLEANING

11-2 Upholstery
11-2 Velour door trim
11-2 Vinyl
11-2 Cloth
11-3 Carpet
11-3 Leather
11-3 Seat belts
11-3 Interior glass

EXTERIOR CLEANING

11-4 Caring for paint
11-4 Paint inspection
11-4 Washing the vehicle
11-5 Removing stains
11-5 Air intakes
11-5 Under vehicle washing
11-5 Door drain holes
11-6 Polishing
11-6 Tyres
11-6 Alloy wheels
11-6 Glass cleaning – general
11-6 Windscreen
11-7 Wiper blades
11-8 Cleaning products

INTERIOR CLEANING

WARNING:

Many cleaners are toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, petrol or naphtha for any cleaning purpose. Ensure that the vehicle is well ventilated while using any cleaners and always follow the cleaning product manufacturer's recommendations. Water based cleaners, rather than solvent based cleaners, are recommended.

Steam cleaning of seats is not recommended.

Upholstery

Dust and dirt accumulate on upholstery should be removed every few weeks, more often with constant driving. This can be done readily with a vacuum cleaner. Before attempting to remove spots and stains, it is necessary to determine:

- The type of fabric.
- The nature and age of the stain.
- The effect of the stain removal agent on the upholstery.

Remove stains as soon as possible. If a stain remains for any length of time it may oxidise or set, making removal very difficult, if not impossible.

Velour door trim

Marks on the velour fabric, which extends to the bottom of the door, can be cleaned off using mild, soapy water on a clean cloth, rubbed in the direction of the pile. When dry, use a soft brush to smooth the pile.

Vinyl

Vinyl fabrics are used for seating, headlinings and auxiliary trimming. Wipe over the surface with a dry cloth during the regular cleaning of the vehicle.

Should dirt accumulate and become embedded in the material pattern:

1. Use lukewarm water and soap, or a good quality velour fabric and vinyl cleaner, to work up thick suds on a piece of cheesecloth and apply to the surface. A soft bristle brush can be used to remove embedded dirt and stubborn stains.
2. Repeat using only a damp cloth and no soap.
3. Wipe dry with a soft cloth. The above cleaning instructions also apply to the rubber floor mats.

Cloth

To clean seats upholstered with cloth, observe the following instructions:

- Remove loose dirt and dust with a vacuum cleaner or soft brush.
- DO NOT use a whisk broom or a coarse hair brush.
- For normal soiling, sponge lightly with warm water containing a mild detergent. Rub the fabric lightly and, if necessary, sponge again to remove any stubborn stains. Soak up excess fluid with a dry cloth. A good quality velour fabric and vinyl cleaner may be used, but should be used sparingly.

INTERIOR CLEANING cont.

Carpet

Thoroughly brush or vacuum the carpet. In many instances the carpet may require no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using a good quality velour fabric and vinyl cleaner, clean a small area at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner.

Secured carpet mats (if fitted): Retainers are provided to hold carpet mats in place. Use a screwdriver or similar (not the vehicle key) to undo the retainers when required. To replace, push the retainer on the back of the mat into the hole in the carpet and turn clockwise to secure.

Leather (if fitted)

To remove surface soil and dirt from leather, clean regularly using a leather revitaliser. Apply using a lint free cloth and rub onto leather, do not saturate the leather with the cleaner and do not pour it directly onto the leather. Allow the leather to dry naturally. A mild detergent may be used as an alternative to a leather revitaliser.

For deeply embedded soil and dirt, use a leather cleaner. This should be applied using the same process as leather revitaliser. After using a leather cleaner / revitaliser apply a leather protector. A leather protector is designed to repell dirt and provides water resistance.

Note:

- Clean and protect leather at least twice a year.
- Do not use synthetic cloths or brushes for cleaning the leather as this may damage the leather.
- Solvents may damage and / or discolour the leather and should not be used.
- The leather may shrink and harden if exposed to direct sunlight for extended periods. If possible park in the shade or cover the leather.
- Do not leave items on the leather that may melt and stick to leather, for example, plastic bags.

Seat belts

Clean seat belts only with a mild, non-abrasive soap and lukewarm water. After washing, be sure to thoroughly sponge the washing solution out of the belts.

WARNING:

Do not bleach or dye seat belts as this may severely weaken them.

Interior glass

Clean interior glass of the vehicle using a good quality glass cleaner, such as Holden Glass Cleaner, and a clean soft cloth. Take care when cleaning inside the rear window so as not to damage the rear window demister or radio antenna.

Never use abrasive cleaners on any vehicle glass, as they can cause scratches.

EXTERIOR CLEANING

Caring for paint

To help preserve that shiny new vehicle finish, pay special attention to correctly treating those conditions that can damage the paint.

- **Road bloom**: If, over a long period of time, oils, dirt, exhaust and other pollutants are allowed to build up, they may combine to affect the paint finish.
- **Etching**: Tree sap, bird droppings, salt water and other natural deposits can, if allowed to stay on the paint, leave an etching or scarring.
- **Pitting**: Tar spots and some industrial fallout can react chemically and may cause pitting to the surface of the paint.

Paint inspection

Inspect the vehicle regularly for scratch marks, cracks or damaged areas, all of which could develop rust. Any deep scratches, cracks or breakdown in the finish should be repaired without delay. Take care to ensure that any rusting is counteracted immediately, otherwise rust 'creep' will extend beyond the damaged area, particularly in tropical or coastal areas, where the moist, or salt-laden air accelerates rusting. The paint finish of the vehicle gives a very high degree of protection against the weather, but wear and deterioration occur when the vehicle is exposed to elements for prolonged periods. The vehicle therefore should be garaged whenever possible.

To prevent damage of the paint surface, remove foreign matter as soon as possible.

Note: Due to the acidity, remove foreign matter such as bird droppings within 24 hours.

Washing the vehicle

The easiest way to keep the paint looking as new is to keep it clean. A wash once a week will keep the vehicle in good condition. However, it must be washed correctly.

Note:

- Never use an automatic wash that requires anything touching the paint (other than water).
- Wash the vehicle once a week to remove build up of any grime on the paint.
- Never wash the vehicle in direct sunlight; find a shady spot to wash the vehicle.

1. Hose the vehicle down from top to bottom with plenty of cold water (in accordance with current water restrictions, if any). This removes any grit or other loose particles and substances. Do not use a sponge or cloth at this point.
2. Fill a bucket with lukewarm water and add no more than two capfuls of gentle detergent, such as Holden Hi Suds Car Wash. Do not use hot water, strong soap or chemical detergents.
3. To remove bird droppings, soak with a wet sponge for several minutes before washing off. If still persistent, use a solution of 1 litre of water and 110 grams of dissolved baking soda (Bicarbonate of Soda). Rinse the area with clean water.
4. Starting with the roof, use a clean sponge to clean a small section at a time. Do not allow liquid to dry before rinsing off that section with clean water. When all sections are completed, rinse the whole vehicle again with clean water.
5. Dry the vehicle thoroughly with a good quality chamois.

EXTERIOR CLEANING cont.

WARNING:

Take care when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

Removing stains (grease, oil and tar spots)

Washing the vehicle regularly means that most of the harmful substances deposited on the paint are removed before they can cause permanent damage. However, some substances are not easy to remove. If you notice stains on the paint, make sure that you remove them at the earliest possible opportunity.

Grease and oil, and even tar if it's fresh, can be removed from the paint with a little kerosene or turpentine. As a precaution against staining, wash and polish the area as soon as possible after the stain has been removed. A rubbing or cutting compound can be used after a normal wash. Do not do this on a regular basis as it removes paint.

WARNING:

- Some chemical cleaners, used for removing road oils and tars from painted surfaces, have been found to be detrimental to automotive paint.
- If petrol is spilt on the paint when refilling, flush off immediately with clean water as petrol has a tendency to stain or soften new paint finish during the weathering out period, particularly when the vehicle is exposed to high temperatures.
- Petrol MUST NOT be used to clean any painted or plastic surfaces.

Air intakes

The intake area between the bonnet and windscreen can collect leaves which impairs air flow into the vehicle. Clear this area of debris whenever the vehicle is washed.

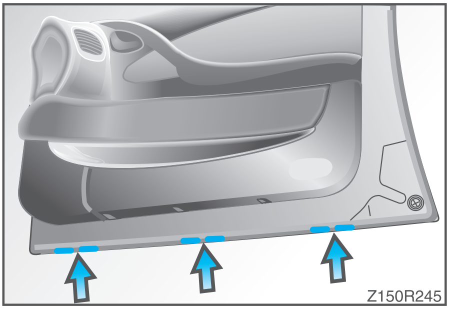
Under vehicle washing

The effects of substances such as salt from road surfaces can cause rust under the vehicle. Hose the underbody with clean water whenever the vehicle is washed. In geographical areas having a heavy concentration of corrosive materials (such as by the sea), it is recommended that the complete underbody be inspected and washed at least once each year, preferably after winter exposure. Pay particular attention to cleaning out the underbody where dirt and other foreign materials may have collected.

Door drain holes

It is important that the drain holes at the bottom of the door panels are checked to make sure that they are free of dirt and other foreign materials which could trap water inside the panels. Clean clogged drain holes with a small screwdriver.

Note: The drain holes in the doors are angled towards the rear of the vehicle.



EXTERIOR CLEANING cont.

Polishing

Under normal circumstances the paint does not need polishing to retain its shine. A weekly wash is sufficient. However, the use of a good quality Polymer Glaze, such as Holden Quick and Easy Speed Finish, approximately every 3 months will reduce the effects of road bloom by removing natural contaminants which can build up on the paint.

WARNING:

Do not attempt to apply a polish without first washing the vehicle to remove loose grit, surface dirt, dust or grease.

Tyres

Sponging with cold water is all that is necessary for normal cleaning. Oil and grease should be removed with soap and water or detergent. For tar or other substances, use a mild abrasive, such as mechanic's hand soap or kitchen cleaning powder, if necessary. Thoroughly wash the tyres with clean water to finish. Do not use petrol to clean tyres.

A new tyre look can be restored using a good quality tyre and bumper shine.

Alloy wheels

To preserve the original appearance of alloy wheels, keep them clean and free from build up of road dirt. A good quality wheel cleaner can be used for cleaning alloy wheels. Do not use abrasive cleaners on alloy wheels.

Glass cleaning – general

Take care not to scratch the glass. If it is cleaned at the same time as the rest of the vehicle, there is a possibility that particles of grit will cause fine scratches. Flush off any mud on the glass when washing the body, but leave the final cleaning and polishing until afterwards. Use a good quality glass cleaner, such as Holden Glass Cleaner, and wash each section of glass in turn, making sure that the water, its container and the sponge are quite clean and free from grit. Clean, old linen cloth is better than new material for polishing glass.

Windscreen

It is important that the windscreen be kept clean so that the wiper blades operate as effectively as possible. Old wiper blades can cause windscreen scratching and so should be regularly inspected and replaced.

Never use abrasive cleaners to clean glass as they can cause scratches, impairing night vision. After the windscreen has been cleaned with a wet sponge, wipe it over with a soft, lint free cloth or chamois.

It is recommended that a good quality windscreen washer additive, such as Holden Optikleen, be added to the windscreen washer reservoir.

EXTERIOR CLEANING cont.

Wiper blades

Oil and road scum thrown up on the windscreen causes smearing when the wipers are switched on and is transferred onto the wiper blades. Whilst many methodically clean the windscreen glass, they often forget to clean the wiper blades. Consequently, smearing of the glass reappears immediately the wiper blades are used. Clean the blades by lifting them off the windscreen and cleaning with a good quality glass cleaner, such as Holden Optikleen, and a clean cloth.

WARNING:

Do not operate the wiper blades by hand as this damages the wiper drive mechanism.

If the wiper blades are used to clean dust and dirt from the windscreen in dry conditions, always use the washer system first to wet the windscreen. Ensure that the windscreen washer reservoir is full.

Should the wiper blades freeze to the windscreen, you must lift them off and free them by hand before switching on the wipers.

CLEANING PRODUCTS

PART NUMBER	SIZE	DESCRIPTION	USAGE
92145132	237 ml	Quick and Easy Speed Finish	Seals in a deep, lustrous glazed finish. Long life protection from oxidation, salt and weather damage.
92145418	437 ml	Quick and Easy Speed Finish	Seals in a deep, lustrous glazed finish. Long life protection from oxidation, salt and weather damage.
92145130	237 ml	All Purpose Cleaner	Cleans and deodorises velour, most vinyl upholstery, hood linings, mats and carpets.
92145416	437 ml	All Purpose Cleaner	Cleans and deodorises velour, most vinyl upholstery, hood linings, mats and carpets.
92145133	237 ml	Glass Cleaner	Cleans all glass surfaces.
92145419	437 ml	Glass Cleaner	Cleans all glass surfaces.
92140005	500 ml	Optikleen	Windscreen washer solvent.
92140004	5 ml	Optikleen Sachet	Windscreen washer solvent; 1 sachett per washer bottle refill.
92145129	237 ml	Hi Suds Car Wash	Cleans vehicle exterior.
92145415	437 ml	Hi Suds Car Wash	Cleans vehicle exterior.
92145131	237 ml	Vinyl and Trim Dressing	Seals and protects vinyl upholstery and plastic trim.
92145417	437 ml	Vinyl and Trim Dressing	Seals and protects vinyl upholstery and plastic trim.
92145140	120 ml	Leather Revitaliser	Revitalises the leather upholstery.
92145141	120 ml	Leather Cleaner	Cleans the leather upholstery.
92145142	120 ml	Leather Protector	Protects the leather upholstery.
92145143	1 Kit	Leather Care Kit	Contains leather revitaliser, cleaner and protector.
92145135		Chamois	Cloth for wiping off excess water from the vehicle's exterior after washing and rinsing.
92145134		Handle Grip Sponge	Sponge for washing the vehicle.
92145136		Microfibre Glass Cleaning Cloth	Cloth for cleaning all glass surfaces.
92145137		Microfibre General Purpose Cleaning / Polishing Cloth	Cloth for general purpose cleaning / polishing.

INDEX

A

- ABS 4-11
  - ABS warning light 1-7
- Accessories
  - Accessory control 1-31, 3-19
  - Battery saver 1-31, 3-19
  - Power sockets 3-23
- Accessory control 3-19
- Accessory kit 6-4
- Accidents 6-2
- Active select indicator 1-10
- Air conditioning 1-46
  - Specifications 8-4
- Air flow
  - Climate control 1-46
  - Vents 1-45
- Air pressure, tyres 7-12
- Airbags
  - Operation 6-19
  - SRS airbag fault indicator 1-9
- Alarm system 2-7
  - Alarm activated warning light 1-12
- Alternator warning light 1-6
- Anchorage points
  - Child restraint 3-8
- Antenna 1-43
- Anti-freeze 7-6, 7-7
- Anti-lock brake system 4-11
- Anti-theft system 2-7
- Ashtray 3-23
- Assist grips 3-26
- Audio system
  - Confirmation beeps 1-28
  - Distortion limiter 1-29
  - Headphones 1-42
  - Personal identification number 1-40
  - Radio / CD operation 1-38, 1-39
  - Rear roof controls 1-42
  - Speed dependent volume 1-29
- Automatic transmission
  - Active select indicator 1-10
  - Active select shift paddles 4-7
  - Fluid level 7-8
  - Operation 4-4
  - Power shift indicator 1-12
  - Selector 4-4
- Axle load capacity 10-4

B

- Battery 6-17
  - Disconnection 7-15
  - Flat 6-17
  - Fluid level 7-15
  - Jump starting 6-17
- Battery saver 3-19
- Bonnet
  - Open and close 2-12
- Booster springs 10-7
- Boot
  - Button, unlock 2-11
  - Emergency release 2-11
  - Lid handle 2-11
  - Lock 2-11
  - Opening 2-11
- Boot net 10-10
- Brake fluid 7-10
- Brakes
  - ABS warning light 1-7
  - Brake warning light 1-7
  - Fluid level 7-10
  - Park brake 3-26
  - Power assisted brakes 4-18
  - Rear brake bulb failure light 1-7
- Breakdown
  - Roadside assistance 9-4
  - Towing 6-14
- Bulb replacement 6-22
  - Cornering lights 6-27
  - Fog 6-27
  - Footwell lights 6-29
  - Front park lights 6-25
  - Interior lights 6-29
  - Number plate lights 6-27
  - Stop lights 6-26
  - Turn signal, front 6-25
  - Turn signal, rear 6-28
  - Turn signal, side 6-26
- Bull bar 6-21

INDEX cont.

C

Car key 2-2
Caravan, towing 10-2
Carbon monoxide, warning 5-2
CD 1-38
  Headphones 1-42
  Rear roof remote controls 1-42
  Remote controls 1-41
Central locking 2-4
Centre display 1-4
Check powertrain warning light 1-12
Child restraints 3-8
  Types of child restraints 3-7
Child safety locks 2-10
Cigarette lighter 3-23
Cleaning, exterior 11-4, 11-5
  Air intake 11-5
  Door drain holes 11-5
  Paintwork 11-4
  Polishing 11-6
  Products 11-8
  Stain removal 11-5
  Under vehicle 11-5
  Wheels and tyres 11-6
  Windows 11-6
  Wiper blades 11-7
Cleaning, interior 11-2
  Carpet 11-3
  Door trim 11-2
  Glass 11-3
  Products 11-8
  Seat belts 11-3
  Upholstery 11-2
Climate control
  Dual zone linking 1-47
  Fan 1-48
  Operation 1-46
  Sensors 1-52
Communications equipment 4-19
  Precautions 4-19
Console 3-20
Convenience net 10-10
Coolant 7-6, 7-7
Cooling system
  Fluid level 7-6, 7-7
  Temperature gauge 1-4
Cornering lights 6-27
Courtesy light 3-18
Cruise control
  Cruise control indicator 1-12
  Operation 1-53
Cup holders 3-24
  Front, dashboard 3-24
  Rear 3-25
Curb weights 10-9
Customer assistance 9-2
Customising features
  Accessory control 1-31
  Audio system 1-28
  Auto lock in drive 1-30
  Calibration mode 1-31
  Courtesy lamp timeout 1-30
  Cruise control 1-54
  Digital speedo display 1-33
  Distance calibration 1-31
  Distance to arrival display 1-27
  Distance to go / arrival default ... 1-27
  Door lock indication 1-30
  Door locks 1-30
  Fuel calibration 1-32
  Headlights approach time 1-29
  Headlights off delay time 1-29
  Headlights sensitivity 1-29
  Help screens 1-26
  Ignition off courtesy lamp 1-30
  MODE button 1-26
  Options menu 1-26
  Radio display 1-28
  Rest reminder display 1-28
  Restore to factory settings 1-27
  Stop watch 1-28
  Trip computer 1-28
  Tyre pressure units 1-33
  Tyre pressure warning 1-33
  Underspeed chime 1-27

INDEX cont.

D

Dashboard 1-2
Deadlock, disengage 2-5
Deadlock, engage 2-4
Demister
  Front window 1-49
  Rear window 1-47
Dimensions 8-4
Dimmer, instrument lights.............. 1-35
Dipping headlights......................... 1-37
Dipstick
  Auto transmission fluid 7-8
  Engine oil 7-4
Dome light
  Bulb replacement....................... 6-29
Dome lights 3-18
Doors
  Child safety locks....................... 2-10
  Key 2-2
  Lock 2-4
  Lock knobs, interior 2-6
  Unlock 2-5
Driving
  Parking 4-2
  Running-in 4-18
  Safety 4-2
  Starting the engine 4-3

E

Electric mirrors 3-14
Electric windows 3-10
Electronic stability program 4-14
Emergencies
  Accidents 6-2
  First aid 6-3
  First aid kit 6-4
  Roadside assistance 9-4
  Safety triangle 6-5
Emissions 5-4
Engine
  Cooling system 7-6, 7-7
  Jump starting 6-17
  Overheating 6-15
  Starting 4-3
  Temperature warning light 1-9
Engine oil
  Adding 7-4
  Change interval 7-4
  Consumption 7-5
  Dipstick 7-4
  Low pressure warning light 1-8
ESP 4-14
  Warning light 1-10
Exhaust fumes, warning 5-2
External mirrors 3-14

F

Fan, climate control 1-48
First aid 6-3
First aid kit 6-4
Flashers
  Hazard warning flashers 6-14
  Turn signals 1-18
Flat battery 6-17
Flat tyre 6-6
Fluid levels
  Automatic transmission 7-8
  Battery 7-15
  Brake 7-10
  Coolant 7-6, 7-7
  Power steering 7-11
  Windscreen washer 7-9
Fog lights 1-37
Footrest 3-26
Free turning locks 2-10
Fuel
  Consumption, reduction 5-5
  Filler flap release 5-3
  Fuel cap 5-3
  Fuel flap 5-3
  Gauge 1-4
  Low fuel warning light 1-11
  Octane rating 5-3
  Precautions 5-2
  Refuelling 5-3
  Tank capacity 5-3
  Type 5-3
Fuel cap 5-3
Fuel consumption 5-5
Fuel filler release 3-26

INDEX cont.

Fuel gauge 1-4
Fumes warning 5-2
Fuses 6-12
  Fuse puller 6-12
  Location 6-12
  Replacement 6-12

G

Gauges 1-4
  Centre display 1-4
  Fuel 1-4
  Speedometer 1-4
  Tachometer 1-4
  Temperature 1-4
General specifications 8-4
Generator warning light 1-6
Globe replacement 6-22
Glovebox 3-20
  Boot lock release button 2-11
  Key 2-2

H

Hand brake 3-26
Hazard lights 6-14
Hazard warning flashers 6-14
  Operation 1-37
Headlights
  Customising 1-29
  Operation 1-36
Headphones 1-42
Heating 1-46
Help screens 1-26
High beam 1-37
High beam indicator 1-15
Hood 2-12
Horn 1-18

I

Identification labels 8-5
  Body and option plate 8-5
  Cooling system / Air conditioning
    label 8-5
  Safety compliance plate 8-5
Identification numbers 8-5
  Body and option plate 8-5
  Cooling system / Air conditioning
    label 8-5
  Safety compliance plate 8-5
Ignition lock 2-9
Ignition switch 2-9
Immobiliser fault 1-14
Indicators / warning lights 1-5
Infant and child restraints 3-7
Inflation, tyres 7-12
Instrument panel
  Service error light 1-13
  System fault warning 1-52
Interior lights 3-18
  Boot 6-30
  Bulb replacement 6-29
  Console bin 6-30
  Dome light 3-18, 6-29
  Door 6-30
  Footwell lights 6-29
  Front reading lights 3-18
  Glovebox 6-30
  Operation 3-18
  Reading lights 3-18, 6-29
  Rear reading lights 6-30
Internal mirrors 3-16

J

Jack
  Jacking locations 6-9
  Operation 6-9, 6-10
  Storage 6-8
  Trolley jack locations 7-16
Jacking equipment
  Jack 6-8
  Nut cap tool 6-8
  Wheel wrench 6-8

K

Kerb weights 10-9
Keys 2-2
  Glovebox key 2-2
  Key numbers 2-2
  Main 2-2

INDEX cont.

L

Layout
  Dashboard 1-2
Lighter 3-23
Lights
  Cornering 1-18, 6-27
  Fog lights 1-37
  Front 6-22
  Hazard lights 6-14
  Interior lights 3-18
  Licence plate 6-27
  Operation 1-35, 3-18
  Tail lights 6-28
  Turn signals 1-18
Loading capacity 10-4
Locks
  Bonnet lock 2-12
  Boot lock 2-11
  Child safety locks 2-10
  Deadlock 2-4
  Door locks 2-4
  Door locks, free turning 2-10
  Ignition lock 2-9
Low beam 1-37
Lubricants, body 8-4

M

Medical assistance 6-3
Memory seat 3-3
Mirrors
  Rear view, auto day/night 3-16
  Rear view, internal 3-16
Mobile phone
  Connection 1-44
  Storage 3-22
Mode button 1-26
Model identification 8-5
Mudflaps....................................... 4-20

N

Navigation system 1-59
Net, convenience 10-10
New vehicle running in 4-18
Nut cap tool 6-9

O

Octane rating.................................. 5-3
Oil
  Adding 7-4
  Change interval 7-4
  Consumption 7-5
  Dipstick 7-4
  Low pressure warning light 1-8
One-direction tyres 6-6
Options menu 1-26
Overheating 6-15
  Engine temperature warning 1-9
Owner responsibility 5-4
  Emission control 5-4
  Weekly checks 7-2

P

Park brake 3-26
Parking 4-2
  Dual park assist 1-55
  Park assist, front and rear 1-55
  Rear park assist 1-55
Parking aids 1-55
Personal identity keys 2-3
Petrol
  Consumption, reduction 5-5
  Filler flap release 5-3
  Gauge 1-4
  Low fuel warning light 1-11
  Petrol cap 5-3
  Petrol flap 5-3
  Precautions 5-2
  Refuelling 5-3
  Tank capacity 5-3
Petrol cap 5-3
Petrol flap 3-26
Petrol gauge 1-4
Phone 1-44
Polishing 11-6
Power assisted brakes 4-18
Power mirrors 3-14
Power shift indicator 1-12
Power sockets 3-23

INDEX cont.

Power steering 4-18
  Fluid level 7-11
Power windows 3-10

R

Radio 1-38
  Headphones 1-42
  Rear roof remote controls 1-42
  Remote controls 1-41
Reading lights 3-18
Rear park assist 1-55
  Disabling 1-57
  Tow bar adjustment 1-57
Rear seat adjustment 3-4
Rear view mirror 3-16
Rear window demister 1-47
Refuelling 5-3
Remote controls, radio / CD 1-41
Restore to factory settings 1-27
Restraints 3-7
Roadside assistance 9-4
Roo bar
  Fitting 4-21
Roof audio controls 1-42
Running-in a new vehicle 4-18

S

Safety mode warning light 1-14
Safety triangle 6-5
Seat belt pretensioners 3-6
Seat belts 3-5
  Seat belt warning light 1-14
Seats 3-2
  Adjustment 3-2
  Child restraints 3-8
  Child restraints, types 3-7
  Front seat 3-2
  Lumbar support 3-2
  Memory 3-3
  Rear seat 3-4
Security card 2-2
Security numbers 2-2
Service reminder 1-6, 1-25
Service vehicle soon warning light 1-13
Shock absorbers, superlift 10-7
Single-directional tyres 6-6
Snow chains 4-20
Spare wheel 6-8
Specifications 8-2, 8-3
Speed chimes 1-22
Speed management 1-22, 1-53
Speed warning preset 1-22
Speedometer 1-4
Stability control
  Warning light 1-10
Starting
  Normal 4-3
Steering
  Power steering 4-18
  Tilt 1-18
Storage compartments
  Console, centre 3-20
  Front 3-21
  Glovebox 3-20
  Rear 3-21
  Sunglasses 3-21
  Telephone 3-22
Sunglasses holder 3-21
Sunroof 3-11
  Cleaning 3-13
  Jamming 3-12
  Operation 3-11
Supplemental restraint system (SRS)
  Airbags 6-19
  Seat belt pretensioners 3-6
Suspension
  Booster springs 10-7
  Superlift shock absorbers 10-7
System check 1-5
System fault 1-52

T

Tachometer 1-4
Tank capacity 5-3
Telephone storage 3-22
Temperature gauge 1-4
Temperature, inside
  Sensors 1-52

INDEX cont.

Temperature, outside
  Sensors 1-52
Theft deterrent................................ 2-7
Tilt steering................................... 1-18
Tools
  Jack 6-9, 6-10
  Jumper leads 6-18
  Nut cap remover 6-9
Towing
  Caravan / Trailer 10-2
  Curb weight 10-9
  Disabled vehicle 6-14
  Equipment 10-3
  Hazard warning flashers 6-14
  Kerb weight 10-9
  Load capacity............................. 10-4
  Load distribution hitch 10-7
  Precautions 10-8
  Trailer, attaching 10-6
Traction control 4-12
  Warning light 1-11
Trailer, towing 10-2
Transmission, automatic 4-4
Transmission fluid 7-8
Trip computer
  Average fuel consumption 1-20
  Average speed 1-20
  Digital speedometer 1-24
  Distance to arrival 1-21
  Fault 1-25
  Fuel remaining 1-21
  Fuel used 1-20
  Measuring distance to empty 1-22
  Measuring fuel consumption 1-22
  Multiple trips 1-24
  Odometer 1-20
  Options mode 1-24
  Overspeed 1-22
  Service due 1-25
  Stop watch 1-24
  Time to arrival 1-21
  Trip distance 1-20
  Trip time 1-20
Trolley jack locations 7-16
Trunk 2-11
Trunk net 10-10
Turn signals
  Bulb replacement, front 6-25
  Bulb replacement, rear 6-28
  Bulb replacement, side 6-26
  Operation 1-18
Tyres
  Flat, changing 6-6
  Grip 4-19
  Inflation pressure 7-12
  One-direction 6-6
  Replacement and repair 7-13
  Rotation 7-13
  Unidirectional 6-6

U

Unidirectional tyres 6-6

V

Vehicle loading 10-4
Vehicle weights 10-9
Ventilation system 1-45

INDEX cont.

W

Warning lights 1-5
  ABS warning light 1-7
  Alarm activated 1-12
  Alternator 1-6
  Brake warning light 1-7
  Check powertrain 1-12
  Engine temperature warning 1-9
  ESP Assistance 1-9
  Fog lights indicator 1-15
  Fuel gauge error 1-13
  Immobiliser fault 1-14
  Low fuel 1-11
  Low oil pressure 1-8
  Low traction 1-10
  Low tyre pressure 1-16
  Overspeed 1-12
  Rear brake bulb failure light 1-7
  Rear lamp bulb failure 1-8
  Rear lamp fuse failure 1-8
  Rest reminder 1-15
  Safety mode 1-14
  Seat belt 1-14
  Security 1-15
  Service error 1-13
  Service vehicle soon 1-13
  SRS airbag fault 1-9
  SRS seat belt pretensioners fault 1-9
  Stability control off 1-10
  System fault 1-52
  Traction control off 1-11
  Tyre pressure sensor fault 1-17
  Very low fuel 1-11
  Very low tyre pressure 1-16

Warranty certificate 9-6
Washer fluid 7-9
Washing your vehicle 11-4
Water crossing 4-19
Wheel
  Alignment 7-13
  Change 6-9
  Chocks 6-9
  Nuts 6-9
  Trim 6-9
Wheel nuts 6-9
Wheel trim 6-9
Window demister
  front 1-49
  rear 1-47
Windows
  Power window controls 3-10
Windscreen
  Washer fluid 7-9
Windscreen demist 1-49
Wiper blades 11-7
Wipers and washers
  Operation 1-34
  Washer fluid 7-9